



DVD + VCR HOME THEATER SYSTEM



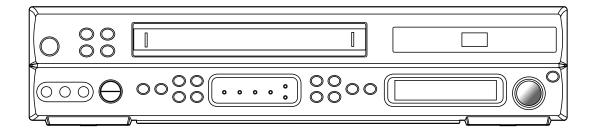




CD-R CD-RW







OWNER'S MANUAL

IMPORTANT

This Unit does NOT allow copying from DVD to VCR Tape

Important Safety Instructions



WARNING: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE. DO NOT PLACE OBJECTS FILLED WITH LIQUIDS ON OR NEAR THIS UNIT.

CAUTION: DANGER OF EXPLOSION IF BATTERY IS INCORRECTLY REPLACED. REPLACE ONLY WITH THE SAME OR EQUIVALENT TYPE.

* SEE BOTTOM OF UNIT FOR GRAPHIC SYMBOLS *

This video cassette recorder (VCR) uses "ONLY" VHS cassette tapes, NTSC video signals (standard in US).



The lightning flash with an arrowhead symbol, within the equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to cause an electric shock.



The exclamation point within the equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in this owner manual.



This product contains a low power laser device.

CLASS 1 LASER PRODUCT

CAUTION

INVISIBLE LASER
RADIATION WHEN OPEN
AND INTERLOCKS ARE
DEFEATED.
AVOID EXPOSURE TO
BEAM

Placement Information

- Do not use the Unit in places which are extremely hot, cold, dusty, or humid.
- Place the Unit on a flat and even surface.
- Do not restrict the air flow of the Unit by placing it in a place with poor air flow, by covering it with a cloth, or by placing it on carpeting.

Safety Information

- When connecting or disconnecting the AC adapter, grip the plug and not the cord itself. Pulling the cord may damage
 it and create a hazard.
- When you are not going to use the unit for a long period of time, disconnect the AC adapter.

Condensation Information

• When left in a heated room where it is warm and damp, water droplets or condensation may form inside the unit. When there is condensation inside the unit, the unit may not function normally. Let the unit stand for 1-2 hours before turning the power on, or gradually heat the room and let the unit dry before use.

FCC Statements

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Rating Plate Location

The rating plate is located on the bottom of unit.

WARNING:

- Should any trouble occur, disconnect the AC power cord and refer servicing to a qualified technician.
- Do not place anything directly on the top of the Unit. Damage to the Unit can result.
- Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Notes on Copyright

It is forbidden by law to copy, broadcast, show or play in public, or rent copyrighted material without permission.

Apparatus Claims of U.S. Patent #s: 4,631,603; 4,577,216; 4,819,098 and 4,907,093 licensed for limited viewing uses only.

DVD video discs are copy protected, and any recordings made from these discs will be distorted. This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights curred by Magazinian Corporation and other rights curred by

owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only, unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

Important Safety Instructions

- 1. Read these instructions.
- 2. Keep these instructions.
- 3. Heed all warnings.
- 4. Follow all instructions.
- 5. Do not use this apparatus near water.
- 6. Clean only with a damp cloth.
- 7. Do not block any of the ventilation openings. Install in accordance with the manufacturer's instructions.
- **8.** Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9. Do not defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- **10.** Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11. Only use attachments/accessories specified by the manufacturer.
- **12.** Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- **13.** Unplug this apparatus during lightning storms or when unused for long periods of time.

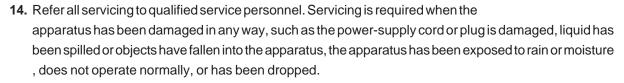




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IMPORTANT

This Unit does NOT allow copying from DVD to VCR tape

Web Site (http://www.1800customersupport.com)

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Disc Formats

The unit can playback.



DVDs [8cm(3")/12cm(5") disc] CD-R CD-RW
Compatible





Audio CDs [8cm(3")/12cm(5") disc]

Region Management Information

Region Management Information: This unit is designed and manufactured to respond to the Region Management Information that is encoded on DVD discs. If the Region number printed on the DVD disc does not correspond to the Region number of this unit, this unit cannot play that disc.

The region number of this Unit is 1.

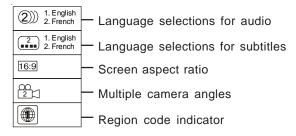


Disc Function or Operation that is Not Available

When the symbol appears on the TV screen, it indicates that the function or operation attempted is not available at that time. This occurs because the DVD disc manufacturer determines the specific functions. Certain functions may not be available on some discs. Be sure to read the documentation provided with the DVD.

Icons Used on DVDs

Sample Icons

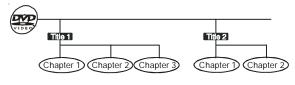


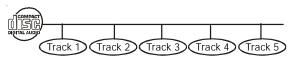
Notes:

- This unit supports 2-channel (L/R) audio and 5.1ch (Multi-channel) MPEG Audio 1/2 (only when the DIGITAL AUDIO OUT coaxial jack is used for connection). It does not support 7.1 channel MPEG Audio Version 2.0.
- When playing back a CD-G (Graphics) or CD EXTRA disc, the audio portion will be played, but the graphic images will not be shown.

Titles, Chapters and Tracks

- DVDs are divided into "titles" and "chapters". If the disc has more than one movie on it, each movie would be a separate "title". "Chapters" are sections of titles.
- Audio CDs are divided into "tracks". A "track" is usually one song on an Audio CD.





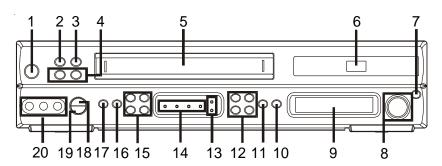
Note:

 Numbers identify each title, chapter, and track on a disc. Most discs have these numbers recorded on them, but some do not.

Notes on Unauthorized Discs

You may not be able to play back some DVD discs on this unit if they were purchased from outside your geographic area or made for business purposes.

Front Panel



1) POWER/ © STANDBY button

Turn the power on or off.

2) ■ STOP button (for VCR)

Stop playing a tape.

3) ► PLAY button (for VCR)

Press to start or resume playback

4) CHANNEL button UP/ DOWN (for VCR)

Use to highlight selections on a menu screen and adjust certain setting.

5) Video cassette compartment

Open tray by pushing TAPE EJECT button.

6) Disc tray

Open or close tray by pushing DVD OPEN/CLOSE button. Place a disc on the disc tray, label side up.

7) DVD OPEN/CLOSE button

Use to open and close the disc tray.

8) VOLUME control

Change the loudness of the sound from the speakers connected to the unit.

9) Display window

Display system information.

10) FUNCTION button (DVD/RADIO/VCR)

Select the source.

11) ▶ PLAY button (for DVD)

Press to start or resume playback

12) II PAUSE/■ STOP/REW/F.FW button (for DVD)

Press to pause playback. Each time you press the PAUSE button the picture advances one frame. Press the PLAY button to resume playback.

Stop playing a disc.

Fast reverse and forward playback.

13) POWER ON/ STANDBY indicator

When the Unit is turned on by pressing the POWER ON/STANDBY button, the light will illuminate a few

seconds. If you press the POWER button on the remote control, the Unit will turn off and go into standby mode. The light will continue to illuminate.

14) VCR POWER/TIMER/VCR/REC indicator

VCR POWER: This indicator lights up whenever the VCR is turned on.

TIMER: This indicator lights up when the VCR is set for timer recording. Simple Recording Timer and Recording with the Timer.

VCR: This indicator lights up when selecting "VCR" by using TV/VCR.

REC: This indicator lights up during recording and flashes during REC-Pause.

15) SET/MENU/REW/F.FWD button (for VCR)

SET: Confirm selections on a VCR menu screen.

MENU: Use to select various screen functions.

REW: Fast reverse playback.

F.FWD: Fast forward playback.

16) REC button (for VCR)

Record a programme from TV or other sources (except DVD).

17) VCR ON/OFF button

Turn the VCR on or off.

18) TAPE EJECT button (for VCR)

Use to eject the tape.

19) Remote sensor

Accept the remote control unit signals.

20) VIDEO IN/AUDIO IN (L/R) jacks (AV 2 IN)

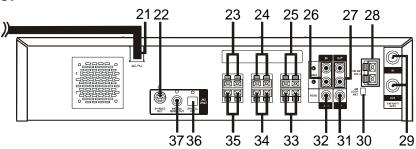
VIDEO IN: Connect a cable coming from the video out jack of a camcorder, another VCR, or an audio visual source here.

AUDIO IN (L/R): Connect audio cables coming from the audio out jacks of a camcorder, another VCR, or an audio source here.

Note:

Screen saver - If no button is pressed within 2 minutes, the screen save function will activate for DVD only, If you want to return to the normal screen, press any button.

Rear Panel



- 21) Power cord
- 22) S-VIDEO (DVD) output jack
- 23) Right Front speaker terminals
- 24) Centre speaker terminals
- 25) Left Front speaker terminals
- 26) AV1 IN (AUDIO) jacks
- 27) Left/Right AUDIO OUT jacks
- 28) FM ANTENNA jacks
- 29) VHF/UHF/CATV IN/OUT jacks

- 30) AM LOOP ANTENNA terminal
- 31) TV OUT (VIDEO) jack
- 32) VIDEO IN (VCR) jack
- 33) Left Rear speaker terminals
- 34) Subwoofer speaker terminals
- **35)** Right Rear speaker terminals
- 36) OPTICAL OUT jack (DVD)
- 37) DIGITAL AUDIO OUT jack (DVD)

Notes:

• S-video out, Digital audio out and Optical out are only for the DVD section.

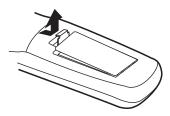
Using the Remote Control

- Point the Remote Control at the REMOTE SENSOR located on the Unit.
- When there is a strong ambient light source, the performance of the infrared REMOTE SENSOR may be degraded, causing unreliable operation.
- The recommended effective distance for remote operation is about 16 feet (5 meters).

To install Batteries

1. Open the battery door.





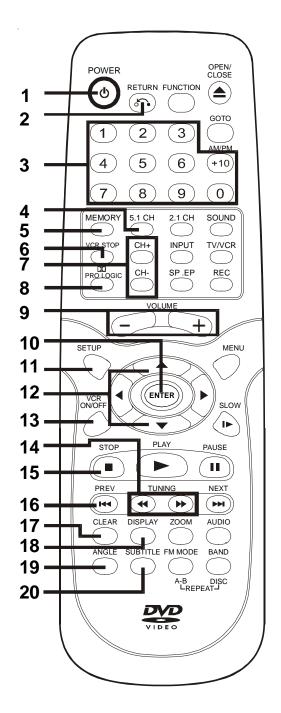


Battery Replacement

When batteries become weak, the operating distance of the Remote Control is greatly reduced and you will need to replace the batteries.

- If the Remote Control is not going to be used for a long time, remove the batteries to avoid damage caused by battery leakage corrosion.
- Do not mix old and new batteries. Do not mix ALKALINE, standard (CARBON-ZINC) or rechargeable (NICKEL-CADMIUM) batteries.

Remote Control



1) POWER / (b) button

Turns the Unit on and puts it in standby mode.

2) RETURN button

Return to the normal operation after using the SETUP menu.

3) Number (0 - 9) and AM/PM (+10) buttons

Use when creating programs, and entering a parental level password. To select numbers over 9, press +10 button and then the second no. for example, to enter 18, press +10 and then 8.

AM/PM: Select AM or PM during time setting.

4) 5.1 Ch button

Switch speaker output to 5.1 channel mode. (All speakers + subwoofer)

5) MEMORY button

Enter the number of a selected chapter or track.

Enter the number of a selected station.

Enter the number of a selected channel.

6) VCR STOP ■ button

Stop playback.

7) CHANNEL +/- buttons

Select the desired channel.

8) PRO LOGIC button

In AV_IN mode, switches to Dolby Pro Logic mode for VHS tapes encoded with Dolby Pro Logic.

9) VOLUME (+/-) buttons

Adjust the volume.

10) ENTER button

Confirm selections on a menu screen.

11) SETUP button

Selects the SET UP menu screen.

12) ▲ / ▼ CURSOR buttons

Use to highlight selections on a menu screen and adjust certain settings.

13) VCR ON/OFF button

Turns the VCR on and off.

14) ◀◀ TUNING ▶▶ buttons

◄<: Fast reverse playback of DVDs/VCRs.</p>

▶►: Fast forward playback of DVDs/VCRs.

◄◄ TUNING ►►: Scan all available radio stations.

15) ■ STOP button (for DVD/VCR)

Stop playback.

16) I◀◀ PREV button (for DVD/VCR)

Move reverse through titles, chapters or tracks on a disc.

Tune to the presetted stations.

Set a reverse video search time.

17) CLEAR button

Clear input selections and cancel certain playback functions.

18) DISPLAY button

Change disc status information displayed on the TV. Change the screen as your desired.

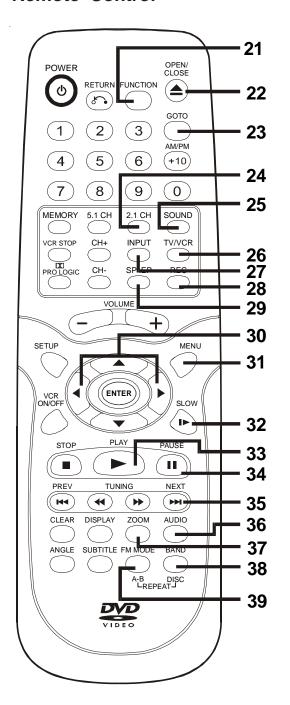
19) ANGLE button Pa

Switch the camera angle of the video presentation when scenes with multiple camera angles are recorded on a DVD.

20) SUBTITLE button

Select one of the subtitle languages programmed on a DVD.

Remote Control



21) FUNCTION button

Display the FUNCTION screen where you can check or change various setting.

22) OPEN / CLOSE button (for DVD)

Use to open or close the disc tray.

23) GOTO button

Skip directly to a specific location on a DVD disc.

24) 2.1 CH button

Switch speaker outputs to 2.1 channel. (Front left/right speakers + subwoofer)

25) SOUND button

Selects sound balance and tone controls for adjustment with the cursor buttons.

26) TV/VCR button

Use to select TV or VCR position.

27) INPUT button

Dub video material from another video device.

28) ● REC button (for VCR)

Record a programme from TV or other sources (except DVD).

29) SP • EP button

Select a recording speed (SP=standard play, EP=extended play).

30) **◄/▶** CURSOR buttons

Use to highlight selections on a menu screen and make adjust certain settings.

31) MENU button

Open and close DVD's menu.

32) SLOW I▶ button (for DVD/VCR)

Perform slow forward playback.

33) PLAY button (for DVD/VCR)

Start playback.

34) II PAUSE button (for DVD/VCR)

Pause playback, frame advance.

35) NEXT ▶▶I button (for DVD/VCR)

Move forward through titles, chapters or tracks on a disc.

Tune to the presetted stations.

Set a forward video search time.

36) AUDIO button

Select one of the audio soundtracks programmed on a DVD or selects the audio output mode on a AUDIO CD.

37) ZOOM button

Zoom into an image.

38) BAND/REPEAT-DISC button

Switch between AM or FM.

Repeat chapter or title of a DVD.

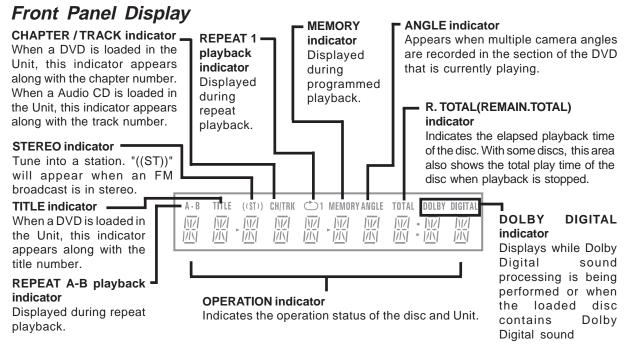
Repeat single track or whole CD.

39) FM MODE / REPEAT A - B button

Set FM MODE to FM STEREO for FM stereo sound or to FM MONO for mono sound.

Perform point-to-point repeat playback on a DVD or CD.

Display



Display Information

The DVD displays the information shown below on the TV screen and on the Unit's DVD display depending on the operation status.

Display Examples

| | TV Screen | Unit Display | Remarks | | | | |
|---|------------------------|--------------|--|--|--|--|--|
| If no disc is loaded when the Main Unit is switched on. | No Disc | поліѕс | "nullist" appears when the tray is closed and: 1)There is no disc in the tray. 2)The disc type is not playable in this Unit. 3)The disc is not loaded correctly (upside-down, etc.) | | | | |
| Tray open | _ Open | ОРЕП | | | | | |
| Tray closed | ay closed ▲Close [L[5] | | | | | | |
| Loading | O Loading | LOAI | | | | | |
| Stopped | ■ Stop | | The display changes to show | | | | |
| Playing | ► Play | | other indicators (total time, etc.) | | | | |
| Paused | II Pause | | Freezes the image on the screen or pauses audio playback. | | | | |
| Fast forward | ▶> x 2 | | The display changes to show other indicators (total | | | | |
| Fast reverse | ◄ ◀ x 2 | | time, etc.) | | | | |
| Slow | - √1/1► x 1/2 | | Does not function for Audio CDs. | | | | |
| Repeat A - B | Да- Дв | A-B | Repeat a specific section. | | | | |
| | \bigcirc | | The operation is not permitted by the DVD Unit or the disc. | | | | |
| Turn on VCR | | YER | In VCR mode. | | | | |

Region (Local) Number Error Indicator

If the region (local) number of the disc that you attempt to play differs from the region number of the Unit, "Invalid Region" appears on the TV screen. (The disc cannot be played).

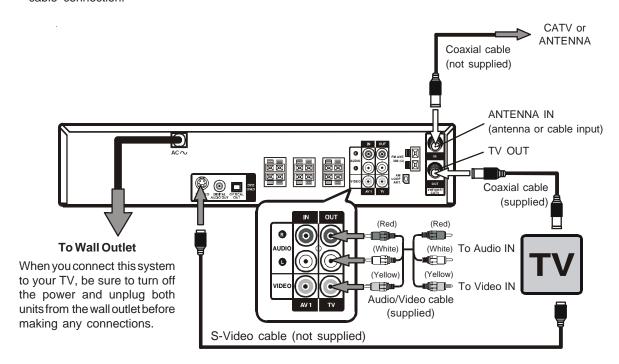
1. Connecting to your TV

The Unit can be connected to your TV in several different ways, depending on the design of your TV.

- 1. Connect the TV antenna (coaxial cable) to the input jack on the unit.
- Attach one end of the supplied coaxial cable to the output jack on the unit, and the other end of the cable to the input jack on your TV.

Alternate Connections:

- 1. If your TV has Audio/Video inputs, you can also connect the unit to your TV using the supplied Audio/Video cord.
- 2. If your TV is equipped with an S-Video input, you can utilize the S-Video jack to connect the unit to your TV with an S-Video cord (not supplied) instead of the yellow video cable. Please note that the S-Video and coaxial cable connection will only carry the video signal from DVD playback. VCR playback will still require you to use the coaxial cable connection.



Note:

 When playback DVD via coaxial cable to TV alone, there will be no audio output from the TV. i.e. Sound comes from 5 speakers plus the subwoofer only.

Cable TV Connections

Your VCR is capable of receiving the following non-scrambled channels.

Scrambled channels can be received with the cable box supplied by your cable TV company.

Preparation

Set the $3 \leftrightarrow 4$ Output Channel of the VCR to 3 or 4.

See Setting the $3 \leftrightarrow 4$ Output Channel.

First check your TV/CATV system

Step 1: Is your TV cable compatible with the VCR?

- YES → Go to Step 2
- NO \rightarrow Go to Step 3

Step 2: Does your CATV system have some or all channels scrambled?

- •YES \rightarrow Go to **D**
- NO \rightarrow Go to \blacktriangle

Step 3: Does your CATV system have some or all channels scrambled?

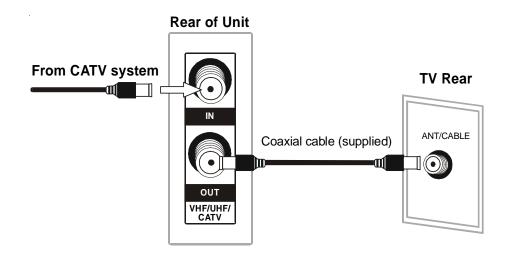
- •YES \rightarrow Go to \square
- NO → Go to Step 4

Step 4: Choose the type below.

- Basic connection (only for descrambled CATV signals.) \rightarrow Go to $\boxed{\mathbf{B}}$ $\boxed{\mathbf{1}}$ or $\boxed{\mathbf{2}}$
- To watch a CATV programme while recording a TV programme by using the A/B switch. \rightarrow Go to lacktriangle

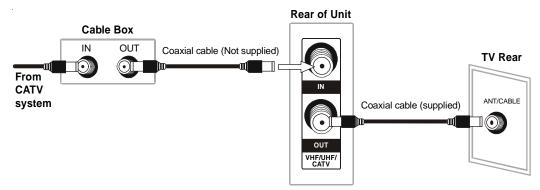
A. Connection without a cable box

Connect as shown. Then plug in the power cords of the TV and cable box.



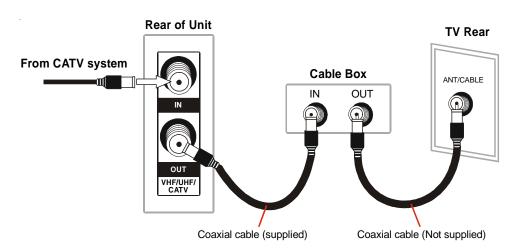
B. Connection with cable box

Connect as shown. With this connection, it is possible to record descrambled CATV signals. Then plug in the
power cords of the TV and cable box.



Notes:

- If the cable box is turned off, it will not output any signals, thus making it impossible to record or view a programme from the CATV system.
- In the case of the above connections, it is not possible to change channels using the remote control. Only the cable box can be used to change channels.
- Only one channel at a time can be programmed for recording programmes with the timer. It is not possible to watch a TV programme different from the one being recorded.
- Depending on which terminals the TV has, a separate combiner (mixer) or separator (splitter) may be necessary.
- 2. Connect as shown. With this connection, it is not possible to record CATV programmes which have been scrambled, but is possible to record one channel and watch the other one. Then plug in the power cords of the TV and cable box.

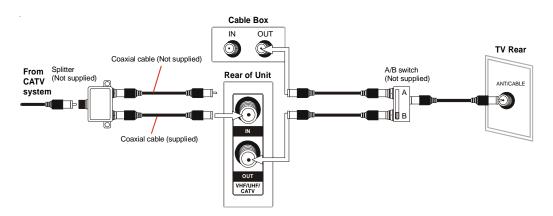


- With the above connection, CURSOR ▲ or ▼ button of the VCR or the numbered buttons on the remote control can be used to select channels.
- Depending on which terminals the TV has, a combiner (mixer) or separator (splitter) may be necessary.
- To record one channel and watch another, the VCR must be set to the TV mode.

C. Connection with cable box, A/B switch and splitter

By using an A/B switch or splitter, it is possible to switch between the cable box and the VCR output. For example, while recording a TV programme with the VCR, it is possible to watch a CATV programme (including descrambled programmes) using the A/B switch.

• Connect as shown. Then plug in the power cords of the TV and cable box.



Using the A/B Switch

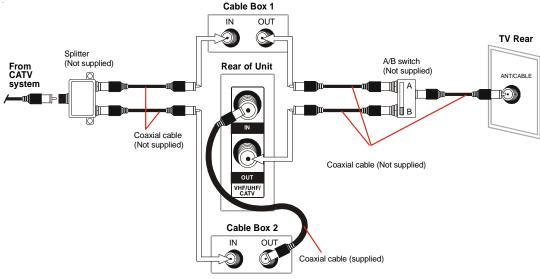
- 1. Set the A/B switch to the "A" position in the following situations.
 - To watch a cable TV programme while recording another programme.
 - To watch a scrambled cable TV programme.
 - To watch a cable TV programme when the VCR is turned off.

- Use the cable box to change channels.
- If you turn off the cable box, you cannot watch a CATV programme.
- 2. Set the A/B switch to the "B" position in the following situations.
 - To playback a cassette on the VCR.
 - To watch a programme which is being recorded with the VCR tuner.
 - · To watch a programme using the VCR tuner.

D. Connection with two cable boxes, A/B switch and splitter

The following connection is necessary to record a cable TV programme (even those scrambled by a cable company) while watching another cable TV programme. The following connection requires two cable boxes, a 2-way splitter and an A/B switch.

• Connect as shown. Then plug in the power cords of the TV and cable box.



Using the A/B Switch

- 1. Set the A/B switch to the "A" position in the following situations.
 - To watch a cable TV programme while recording another programme.
 - To watch a cable TV programme when the VCR is turned off.
- 2. Set the A/B switch to the "B" position in the following situations.
 - To playback a cassette on the VCR.
 - To watch a programme being recorded, or to change (or watch) channels with the cable box 2. The output channel of the cable box 2 and the VCR must be the same.

Notes:

- If you turn off the cable box, you cannot record or view a CATV programme.
- If you have questions regarding any connection procedure, please contact your cable company.

2. For better reception of Radio

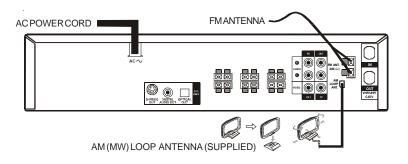
FΜ

Connect FM antenna (supplied) to the FM ANTENNA jacks.

AM

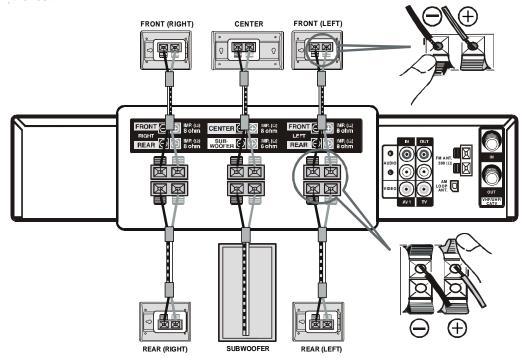
Connect the AM loop antenna (supplied) to the AM LOOP ANTENNA terminals. Rotate the AM loop antenna to obtain the best reception.

NOTE: Position this AM loop antenna as far away as possible from this system and from the TV.

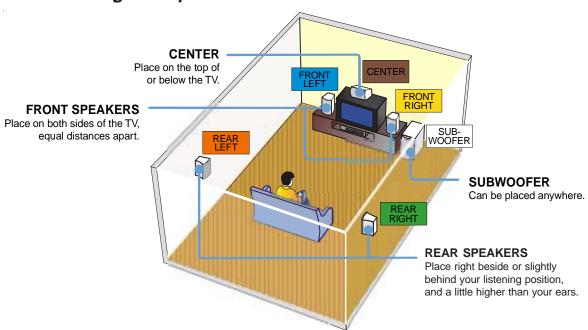


3. Connecting the speakers & subwoofer

- 1. The speaker cords have been color-coded to simplify connection. Just plug the **POSITIVE (+)** and **NEGATIVE (-)** ends of each speaker wire into the corresponding jacks on the rear of the Unit, matching the color tube on the end of the speaker wire to the color-coded connector.
- 2. Connect each of the speaker wires to the satellite speakers. The front left/right and rear left/right speakers are all the same. However, make sure you connect to the center speaker (color) to the one speaker which is slightly longer than the rest.

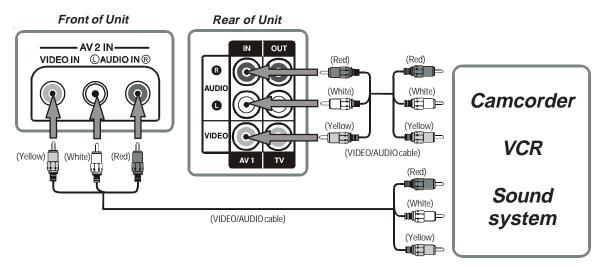


4. Positioning the speakers and subwoofer

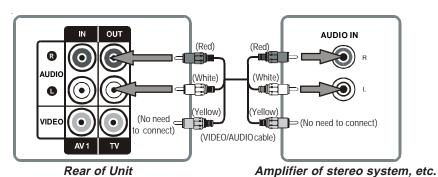


5. Connecting Other Equipment

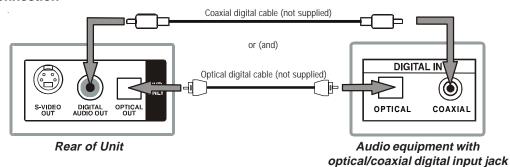
You can connect other audio and/or video equipment to your unit in different ways. The following illustrations give a few examples of the connection possibilities.



Analogue connection



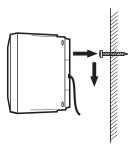
Digital connection



- If the external equipment is a television and this audio system is closed to it, you may experience interference if the tuner function is selected while the television is working.
- · When you have selected TUNER function, sound will ONLY come from the front left, right speakers and subwoofer.
- If you have a stereo VCR, make sure you set it in stereo mode.
- Due to copyright protection, DVD movies cannot be copied. If you copy a DVD movie onto a videotape, the resulting
 copy will be unclear, with poor sound quality. This is NOT caused by a defective DVD system.

Mounting rear surround speakers

- 1) Mark the correct mounting position on the wall.
- 2) Insert a fixing screw(s) at the marked position on the wall.
- 3) Align the slot hole(s) of the speaker over the screw and pull the speaker downward until it is firmly hooked.



Need More Help?

DO NOT RETURN THIS TO THE STORE

Please call Customer Service at 1-800-252-6123 or
visit online help at http://www.1800customersupport.com

Turning on the Unit and TV

- 1)Press the POWER/STANDBY button to turn the Unit ON, or
- 2)Press the 0/POWER button on the remote control while the Unit is in standby mode.
- 3) Turn on the TV by pressing its **POWER** button.
- 4)Select the channel on your TV corresponding to the VIDEO IN jack that the Unit is connected to. See TV User guide for more information.
 - If you have connected the Unit successfully, the DVD logo (start-up picture) will appear on your TV screen.



Power cord connection

- Make sure that all the components and speakers are connected correctly.
- To prevent electrical shock, match wide blade of plug to wide slot, fully insert.
- · Be sure the AC power cord is disconnected and all functions are off before making connections.
- When you are not going to use the Unit for a long period of time, disconnect the power cord.

Adjusting the Sound

To adjust the surround sound balance while Pro Logic decoding is in effect

Use the remote control to make the following changes to speaker balance:

Front speaker (left)

 Press the SOUND button repeatedly to display LEFT, then press the ▼ or ▲ CURSOR button to adjust the sound level. It will show on the display of the Unit.

Front speaker (right)

 Press the SOUND button repeatedly to display RIGHT, then press the ▼ or ▲ CURSOR button toadjust the sound level. It will show on the display of the Unit.

Center speaker

Press the SOUND button repeatedly to display CENTRE, then press the ▼ or ▲ CURSOR button to adjust
the sound level. It will show on the display of the Unit.

Rear speaker (left)

 Press the SOUND button repeatedly to display REAR L, then press the ▼ or ▲ CURSOR button to adjust the sound level. It will show on the display of the Unit.

Rear speaker (right)

 Press the SOUND button repeatedly to display REAR R, then press the ▼ or ▲ CURSOR button to adjust the sound level. It will show on the display of the Unit.

Subwoofer

Press the SOUND button repeatedly to display WOOFER, then press the ▼ or ▲ CURSOR button to adjust
the sound level. It will show on the display of the Unit.

Note:

• If you do not press any button within a few seconds, the display will return to normal.

To adjust the sound quality

Press the **SOUND** button repeatedly to select an equalization mode **(BASS, MIDDLE, TREBLE)**. Press the **v** or **A CURSOR** button to adjust the sound level.

BASS: the low range of sounds
MIDDLE: the mid range of sounds
TREBLE: the high range of sounds

Bass, middle and treble control the sound from the front left and right speakers.

Dolby Digital

Dolby Digital is a sound system developed by Dolby Laboratories Inc. that gives movie theatre ambience to audio output when the Unit is connected to a Dolby Digital 5.1 channel processor or amplifier.

This Unit automatically recognizes DVDs that have been recorded with Dolby Digital.

Not all Dolby Digital sources are recorded with 6 channels.

Some sources marked Dolby Digital may be recorded in Dolby Surround, a 2 channel system. Look for this logo on your DVD Unit.



Manufactured under license from Dolby Laboratories.

'Dolby', 'Pro Logic' and the double-D symbol DD are trademarks of Dolby Laboratories.

Adjusting the Sound

To select the listening channel

- 1. When the disc is stopped, you can press 5.1 CH and 2.1 CH buttons on the remote control to select different speakers output status shown as below table.
- 2. You can active or off subwoofer output by setup menu.

Note:

The wording "2.1 CH" will be corresponded to the audio/sound output from Front Left and Front Right speaker plus the Subwoofer.

The following tables show which speakers are working in the various modes.

| | Α | udio Settin | gs | Speakers Output Status | | | | | | | |
|------|--------------------|-------------|------------------|------------------------|------------------------|-------------------|-----------|----------------------|-----------------------|--|--|
| DISC | 5.1 CH / 2.1 CH | Subwoofer | L/R Speaker | Front Left Speaker | Front Right Speaker | Center Speaker | Subwoofer | Rear Left Speaker | Rear Right Speaker | | |
| | 5.1 CH | ON | Small | / | \ | / | \ | / | \ | | |
| | 5.1 011 | ON | Large | > | / | / | X | / | > | | |
| DVD | 5.1 CH | OFF | Small / Large | > | > | > | x | > | > | | |
| CD | 2.1 CH | ON | Small / Large | > | / | х | > | Х | Х | | |
| | 2.1 CH | OFF | Small / Large | > | / | Х | Х | Х | Х | | |
| _ | | | · | | | · | | | | | |
| | | | | | | | | | | | |

| | | Audio S | Settings | | Speakers Output Status | | | | | |
|---------|---------------------------|-------------------------|------------------|------------------|------------------------|------------------------|-------------------|-------------|----------------------|-----------------------|
| Sources | Output Channel | 3 Stereo / Pro Logic | Subwoofer | L/R Speaker | Front Left Speaker | Front Right Speaker | Center Speaker | Subwoofer | Rear Left Speaker | Rear Right Speaker |
| TUNER | N/A | N/A | N/A | N/A | / | > | Х | > | Х | Х |
| | | | ON | Small | > | > | / | \ | / | / |
| | 4 CH | Pro | ON | Large | > | / | > | Х | / | / |
| | Logic | OFF | Small / Large | > | > | > | x | ~ | \ | |
| | VCR / AV_IN 3 CH 3 Stereo | | ON | Small | / | > | \ | > | Х | Х |
| | | 3 Stereo | ON | Large | > | \ | > | Х | Х | Х |
| AV_IN | | OFF | Small / Large | > | > | > | Х | х | Х | |
| 2 CH | 2 CH | 2 CH OFF | ON | Small / Large | > | > | х | > | х | Х |
| | OH | OFF | Small / Large | > | > | Х | Х | х | Х | |

REMARKS:

- 1) Generally, only Front Left, Right speakers and Subwoofer are active at TUNER mode.
- 2) "\(\sigma\)" The speakers is activated.
- 3) " X " The speakers is not activated.
- 4) Always keep your VCR in stereo mode otherwise the speakers output status may be different to above listed table.
- 5) You can only set 5.1 CH, 2.1 CH when the disc is stopped.
- 6) In Subwoofer On mode, if speaker is set to "Large", then the output of subwoofer is low.



This owner's manual explains the basic instructions of this Unit. Some DVD discs are produced in a manner that allows specific or limited operation during playback. As such, the Unit may not respond to all operating commands. This is not a defect in the Unit. Refer to the instruction notes of discs.

" I may appear on the TV screen during operation. A I I means that the desired operation is not permitted by the Unit or the disc.

Playing a Disc

- 1. Press the POWER/STANDBY button on the front panel or press the OPOWER button on the remote control to turn on the Unit while the Unit is in standby mode.
- 2. Press the **FUNCTION** button to select DVD mode.

See CUSTOMIZING THE FUNCTION SETTINGS before proceeding to step 3.

- 3. Press the **△ OPEN / CLOSE** button. The disc tray opens.
- 4. Place the disc on the disc tray with the label side up.
- 5. Press the **△ OPEN / CLOSE** button. The disc tray closes. It takes a short while for your Unit to load the disc. After loading, for some discs, the Unit will automatically start playback of the disc.
- 6. Press the ▶ PLAY button.

Notes:

- Use the ▲ OPEN / CLOSE button on the front panel to open or close the disc tray. Do not push the disc tray or you may damage the Unit.
- Let the disc tray open completely before removing the disc. Press the ▲ OPEN / CLOSE button to close the disc tray after you remove the disc.

Pausing playback (still mode)

Press the II PAUSE button. To resume normal playback, press the ▶ PLAY button.

Stopping playback

Press the **STOP** button at the location where you want to interrupt playback. To resume playback at the position where the disc was stopped, press the ▶ PLAY button.

If you press the ■ STOP button twice, the Unit's memory will be cleared and pressing the ▶ PLAY button will reset the disc to the beginning.

To skip to a different track CDVD CCD



- Press the ► PREV button once to skip to the start of the previous track.
- Press the ►► NEXT button to skip to the next track.
- · For audio CD disc, use the number buttons (remote control only) to jump straight to that track number.

Fast Forward/Fast Reverse C



1. Press the **TUNING** ▶ or **◄ TUNING** button when a disc is playing.

- The disc begins fast scan at x2 speed.
- Four speeds are available. Each time TUNING → or ◀ TUNING button is pressed, the speed of fast scan changes in the following sequence: → x 2 → → x 4 → → x 8 → → x 20



Note:

You also can press and hold ◀ REW and ▶ F.FWD buttons on front panel repeatedly to select different fast scan speed.

2. Press the PLAY button when you reach the desired point to resume playback at normal speed.

Slow-motion play OVD

- 1. Press the **SLOW I** ▶ button in the play mode.
 - Two speeds are available. Each time SLOW I► button is pressed, the speed of slow-motion playback changes in the following sequence:
 I► x 1/2 → I► x 1/4
- Press the PLAY button to return to the normal playback speed.

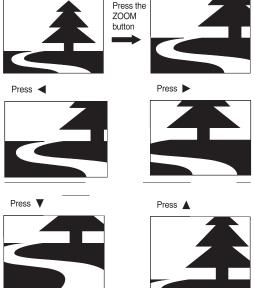
SKIP (Forward) OVD CCD

While you are playing a disc, press the ►► NEXT button of the remote or ►► F.FWD button of front panel to move to the beginning of the next chapter or track. Press the I◄ PREV button of the remote or ◄ REW button of the front panel to move to the previous chapter or track and automatically start playing it.

Zooming into an image

While a disc is playing, press the **ZOOM** button.

- While an image is zoomed, you can use ▲, ▼, ◄ and ▶ button to shift the view and display the part you want.
- To return to the normal view, press the **ZOOM** button until the " Qoff " symbol shows. The screen will return to normal.



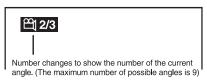
When you reach the edge of the image, the display will not shift anymore in that direction.



Angle selection

Some DVDs contain scenes which have been shot from a number of different angles. For these discs, the same scene can be viewed from each of these different angles.

1. While you are playing a DVD with different angles recorded, press the **ANGLE** button to view the number of the current angle.



- 2. Press the ANGLE button repeatedly to change the scene to the next angle in those recorded.
 - About two seconds later, playback continues from the new angle you selected.
 - If no button is pressed within 10 seconds, playback continues without changing the current angle.

Sequence of angle shots

EX.:



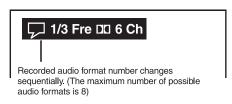
Notes:

- This function can only be used for discs on which scenes shot from multiple angles have been recorded.
- If only one angle is recorded, " 2111 " is displayed.

Audio selection

On some discs, the sound is recorded in two or more formats. Follow the directions below to select the type of playback.

1. While a disc is playing, press the AUDIO button to show the current audio format number.



2. Press the AUDIO button repeatedly to select the desired audio format.

- If only one audio format is recorded, the number does not change.
- About two seconds later, playback continues in the new audio format.



Subtitle selection

1.While a DVD is playing, press the **SUBTITLE** button to display the current language setting, as shown in the example below.



2. Press the SUBTITLE button repeatedly to select the desired subtitle language.

- If only one language is recorded, the language does not change.
- About two seconds later, playback continues with the new subtitle you selected.
- The number of languages recorded differs depending on the disc.
- · If no button is pressed within a few seconds, playback continues without changing the current subtitle.
- This function can only be used for discs on which subtitles have been recorded in multiple languages.
- On some DVDs, subtitles are activated from the main menu of the DVD. Press the MENU button to activate the main menu.

Special Functions

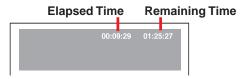
DISPLAY function

Using DISPLAY, you can check and change the current settings of the following items: ANGLE, AUDIO and SUBTITLE.

• While the disc is playing, press the **DISPLAY** button to display the screen shown below.

Elapsed time: Elapsed time from the beginning of the chapter which is currently playing.

Remaining time: Remaining time of the title which is currently playing.



- Press the **DISPLAY** button twice to display the screen shown as below.
- Press the ANGLE, AUDIO and SUBTITLE button to change the selected item.



Title skip

- The number of the title currently playing and total titles of disc.
- Press the GOTO button to set your desired title, then press the ENTER button to confirm.

Chapter skip

- The number of the chapter currently playing and total chapters of the currently played title.
- Press the GOTO button to set your desired chapter, then press the ENTER button to confirm.

Time skip

- Elapsed time from the beginning of the currently playing chapter and the remaining time from the beginning of the currently playing title.
- Press the GOTO button to set your desired point to start playback, then press the ENTER button to confirm.

Angle setting

- The current angle is displayed. When a disc with only one angle is played back, "Alangle 1/1" is displayed.
- Press the **ANGLE** button to select the desired angle.

Audio setting

- · The type of audio currently selected is displayed.
- Press the AUDIO button to select your desired type of audio.

Subtitle setting

- The subtitle number and language currently selected is displayed. When a disc with only one subtitle is played back, "[...] 1/1 Eng" is displayed.
- Press the **SUBTITLE** button to select your desired language.

GOTO function

This function allows you to skip directly to any part of the disc while a disc is playing.



Note:

• After settings, press the **DISPLAY** button again to return to the normal screen.

Special Functions

Locating a specific title OVD



If a DVD disc contains title numbers, you can locate a specific title by directly selecting a title number.

- 1. In stop mode, press the **GOTO** button.
- 2. Press ▼, ◀ or ▶ button to highlight a specific field and press the corresponding number button(s) for the title you want.
- 3. Press the ENTER button to confirm. The Unit will start playback about 3 seconds later.



Note:

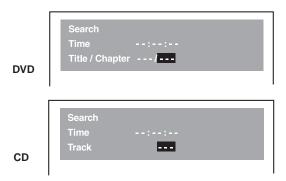
Pressing the CLEAR button resets the title number.

Locating a specific title / chapter / track CDVD CCD



If you know the title / chapter / track number you want to play, you can locate a specifc title / chapter / track by directly selecting a title / chapter / track number.

- 1. Press the **GOTO** button to search your desired title / chapter / track.
- 2. Press ▼, ◄ or ▶ button to highlight a title / chapter / track and press the corresponding number button(s) for the chapter you want.
- 3. Press the ENTER button to confirm. The Unit will start playback about 3 seconds later.



Note:

Pressing the CLEAR button resets the title / chapter / track number.

Special Functions

Locating a specific time OVD CCD



You can move to a specific location by entering its corresponding time (hours, minutes, seconds)

- 1. Press the **GOTO** button.
- Press ▲ or ▼ button to highlight time.





- 3. Press the corresponding number buttons for the setting point you want.
 - The first two numbers you entered represent hours.
 - The second two numbers you entered represent minutes.
 - The third two numbers you entered represent seconds.
- 4. Press the **ENTER** button to confirm. The Unit will start playback about 3 seconds later.

Notes:

- · Some discs may not respond to this process.
- Some scenes may not be located as precisely as you specified.
- This method for accessing specific locations is available only within the current title of the DVD disc.
- You can move through the menu by pressing the ▲ and ▼ buttons.
- Pressing the CLEAR button resets the time.

Angle setting (

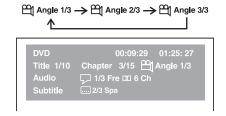
- 1. Press the **DISPLAY** button twice. The FUNCTION menu is displayed on the screen and you can see how many angles are recorded on the disc.
- 2. Press the **ANGLE** button repeatedly to select your desired angle.
- 3. The Unit will change to your desired angle about 3 seconds later.
- 4. Press the **DISPLAY** button to resume the normal screen.

Audio setting CDVD

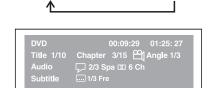
- 1. Press the **DISPLAY** button twice. The FUNCTION menu is displayed on the screen and you can see how many audio formats are recorded on the disc.
- Press the AUDIO button repeatedly to select your desired type of
- 3. The Unit will change to your desired type audio about 3 seconds
- Press the DISPLAY button to resume the normal screen.

Subtitle setting (

- 1. Press the DISPLAY button twice. The FUNCTION menu is displayed on the screen and you can see how many subtitle formats are recorded on the disc.
- 2. Press the **SUBTITLE** button repeatedly to select your desired language.
- 3. The Unit will change to your desired language about 3 seconds later.
- 4. Press the **DISPLAY** button to resume the normal screen.







.... 1/3 Fre -> 2/3 Spa -> 3/3 Eng

CD / DVD programmable memory

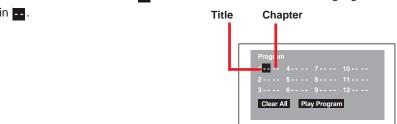
Programmable memory



The two types of programmed playback provided by this Unit are title programmed playback and chapter programmed playback.

Title / Chapter programmed playback

- 1. Press the **MEMORY** button while the disc is stopped.
- 2. Enter the title numbers in . Use ◀ or ▶ button to move the highlight to chapter and enter the chapter numbers



- 3. Use \blacktriangleleft , \blacktriangleright , \blacktriangle or \blacktriangledown button to move to the other field.
- Repeat steps 2 to 3.
- 5. Press the ▶ PLAY button to start the programmed playback.

Notes:

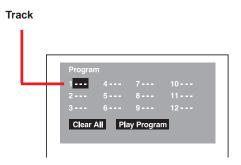
- If you press the STOP button, the programmed selections will be cleared.
- If you press the CLEAR button while you are entering a title or chapter, the currently entered numbers will be erased and you can reset the numbers again.

Programmable memory CCD



Track programmed playback

- 1. Press the **MEMORY** button while the disc is stopped.
- 2. Enter the track numbers in ____.



- 3. Use ◀, ▶, ▲ or ▼ button to other field.
- Repeat steps 2 to 3.
- 5. Press the ▶ PLAY button to start the programmed playback.

Note:

 If you press the CLEAR button while you are entering a track, the currently entered numbers are erased and you can reset the numbers again.

Repeat Playback

You can play a specific title or chapter repeatedly.

(Title repeat, chapter repeat, A-B repeat)

Repeating a title CDVD



You can play the same title repeatedly.

1. While the disc is playing, press the REPEAT DISC button until the "Repeat Title" indicator displays on the screen. The current title is played repeatedly.



Repeating a chapter

You can play the same chapter repeatedly.

2. While the disc is playing, press the **REPEAT DISC** button until the "Repeat Chapter" indicator displays on the screen. The current chapter is played repeatedly.



To resume normal playback

3. While the disc is playing, press the **REPEAT DISC** button until the "Repeat Off" indicator displays on the screen.



You can play a single track and whole disc repeatedly.

Repeating a single track (



You can play the same track repeatedly.

1. While the disc is playing, press the REPEAT DISC button until the "Repeat Single" indicator displays on the screen. The current track is played repeatedly.



Repeating a whole disc

2. While the disc is playing, press the **REPEAT DISC** button until the "Repeat All" indicator displays on the screen. The whole disc is played repeatedly.



To resume normal playback

3. Press the **REPEAT DISC** button until the "Repeat Off" indicator displays on the screen.



Repeat Playback

Repeating a specific section (



You can play a specific section repeatedly.

1. While the disc is playing, press the **REPEAT A-B** button at the beginning of the section (A-) is displayed you want to play repeatedly.

| Ω A- | | | |
|-------------|--|--|--|

2. Press the **REPEAT A-B** button again at the end of the section (PE) is displayed.

| Дв | | | |
|----|--|--|--|

3. The Unit will immediately begin replaying your selection.

To resume normal playback

4. While the disc is playing, press the **REPEAT A-B** button until the "**Poff**" indicator displays on the screen.

| ₽off | | |
|------|--|--|

- A-B repeat can only be used within the same title. If the start and end of the section to be repeated are in different titles, A-B repeat is cancelled.
- The A-B repeat function does not operate in scenes where different camera angles are recorded.

Playing Picture File Disc

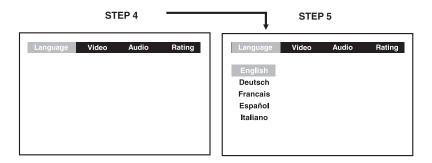
Playing a Picture file disc

- 1. Press the **≜OPEN /CLOSE** button, the disc tray opens.
- 2. Insert a Picture CD on the disc tray with the label side up.
- 3. Press the **≜OPEN/CLOSE** button, the disc tray closes.
- 4. The unit will take a short while to load the disc.
- 5. Press the ▶PLAY button. The next picture will automatically display after 6 seconds.

- If you press the MENU button on the remote control, or press the STOP button in full-screen review, the
 Unit will display a menu of 12 thumbnail images.
- Press the ►► NEXT or ►
 PREV button to review all the images. If you want to review one image in full-screen, you can use the cursor
 ,
 ,
 a or
 buttons to highlight the image and then press the ENTER button to confirm. The image you selected will show on TV in Full-Screen. Press the
 NEXT or
 PREV button to review other images.
- Press the PLAY button, the images will automatically display one by one again in about 6 seconds intervals.
- You can press the PAUSE button to interrupt playback, and press the ►PLAY button to resume playback.
- You also can use GOTO function or use the numbered buttons to enter the number to quickly select any image.
- You can press the ZOOM button to enlarge the picture in 3 levels.
- Press the ANGLE button on the remote control to rotate the picture orientation by 90°.
- Press the AUDIO button on the remote control to change the picture presentation direction.

LANGUAGE setting

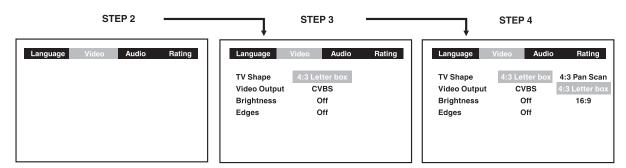
- 1. Press the **FUNCTION** button until DVD appears on the display.
- 2. Press the STOP button so that no disc is playing.
- 3. Press the **SETUP** button.
- 4. Use the cursor ◀ or ▶ button to select the Language, then press the **ENTER** button.
- 5. Use the cursor ▲ or ▼ button to English, then press the **ENTER** button. The screen will change to English Wordings immediately.
- 6. To exit the FUNCTION SETUP MENU and return to the normal screen, press the RETURN button.



VIDEO setting

TV Shape

- 1. Press the **SETUP** button.
- 2. Use the cursor ◀ or ▶ button to select Video, then press the ENTER button.
- 3. Use the cursor ▲ or ▼ button to select TV Shape, then press the ENTER button.
- 4. Use the cursor ▲ or ▼ button to shift and select the TV type, then press the **ENTER** button.
- 5. To exit the FUNCTION SETUP MENU and return to the normal screen, press the **RETURN** button.



Cut off when a wide-screen video image is played.







your wide-screen TV.

The actual appearance of the image

depends on the screen mode setting of

4:3 Pan Scan

- When wide-screen video material is played, this mode clips the right and left sides of the image so that it can be viewed on a conventional TV screen.
 - Some wide-screen DVDs that do not permit Pan Scan mode playback are automatically played in letterbox mode (black bands top and bottom).

4:3 Letter Box

 When wide-screen video material is played in this mode on a conventional TV screen, black bands appear at the top and bottom of the screen.

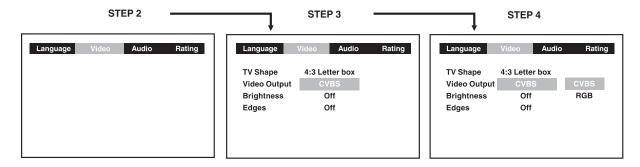
16:9 Wide-screen

- This is the correct mode for playing wide-screen videos on a wide-screen TV
 - You must also set the screen mode on your wide-screen TV to "FULL".

- The displayable picture size is preset on the DVD disc. Therefore the playback picture of some DVD discs may not
 conform to the picture size you select.
- When you play DVD discs recorded in the 4:3 picture size only, the playback picture always appears in the 4:3 picture size regardless of the TV shape setting.
- If you select 16:9 wide-screen mode and you own a 4:3 TV set, the DVD playback picture will be horizontally distorted during playback. Images will appear to be horizontally compressed. Always be sure that your TV shape conforms to the actual TV in use.

Video Output

- 1. Press the **SETUP** button.
- 2. Use the cursor ◀ or ▶ button to select Video, then press the **ENTER** button.
- 3. Use the cursor ▲ or ▼ button to select Video Output, then press the **ENTER** button.
- 4. Use the cursor ▲ or ▼ button to shift and select the signal, then press the **ENTER** button.
- 5. To exit the FUNCTION SETUP MENU and return to the normal screen, press the RETURN button.



Note:

The RGB option is ONLY useful for use in Europe, and should not be selected.

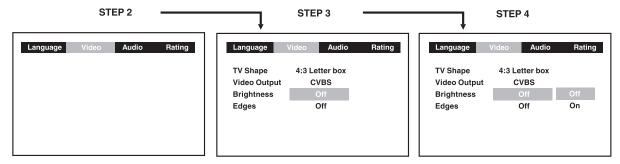
Attention:

Always set Video Output in CVBS, otherwise, the picture on the TV may be distorted. If this occurs, and you cannot see the screen, follow these instructions:

- 1. Change FUNCTION to DVD mode.
- 2. Open the DVD door.
- 3. Press the **SETUP**, ▶, **ENTER**, ▼, **ENTER**, ▲, **ENTER** & **RETURN** buttons.

Brightness

- 1. Press the **SETUP** button.
- 2. Use the cursor ◀ or ▶ button to select Video, then press the ENTER button.
- 3. Use the cursor ▲ or ▼ button to select Brightness, and then press the ENTER button.
- 4. Use the cursor ▲ or ▼ button to shift and select the Off/On, then press the ENTER button.
- 5. If you want to exit the SETUP MENU and return to the normal screen, press the RETURN button.



On: Picture will be brighter to clarify details.

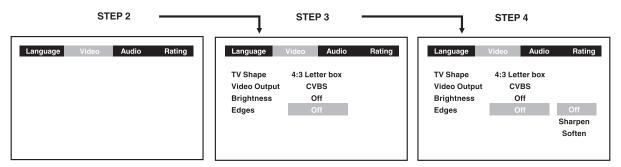
Off: Picture will have deepened colors.

Note:

· Actual effect on pictures will vary depending on the TV.

Edges

- 1. Press the **SETUP** button.
- 2. Use the cursor ◀ or ▶ button to select Video, then press the **ENTER** button.
- 3. Use the cursor ▲ or ▼ button to select Edges, and then press the **ENTER** button.
- 4. Use the cursor ▲ or ▼ button to shift and select the Sharpen / Soften / Off, then press the **ENTER** button.
- 5. If you want to exit the SETUP MENU and return to the normal screen, press the RETURN button.



Sharpen : Fine detail will be easier to see.

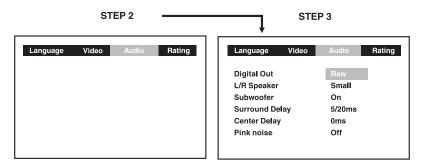
Soften: Soft-focus effect.

Off: Picture will be returned to normal.

AUDIO setting

Digital Out

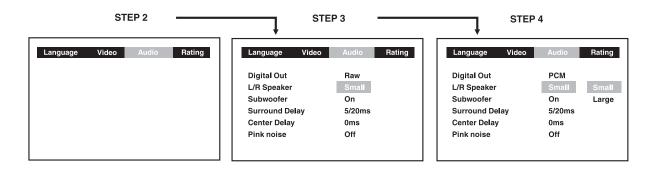
- 1. Press the **SETUP** button.
- 2. Use the cursor ◀ or ▶ button to select Audio, press the **ENTER** button.
- 3. Use the cursor ▲ or ▼ button to select Digital Out, and then press the **ENTER** button repeatedly to select Digital Out type.
- 4. To exit the FUNCTION SETUP MENU and return to the normal screen, press the RETURN button.



Raw: Does not have a Dolby Digital Decode. **PCM**: Do have a Dolby Digital Decode.

L/R Speaker

- 1. Press the **SETUP** button.
- 2. Use the cursor ✓ or ▶ button to select the Audio, press the ENTER button.
- 3. Use the cursor ▲ or ▼ button to L/R Speaker, and then press the ENTER button.
- 4. Use the cursor ▲ or ▼ button to select the desired setting, and then press the ENTER button.
- 5. To exit the FUNCTION SETUP MENU and return to the normal screen, press the RETURN button.



L/R Speaker

Small: Small size of Speaker. **Large**: Large size of Speaker.

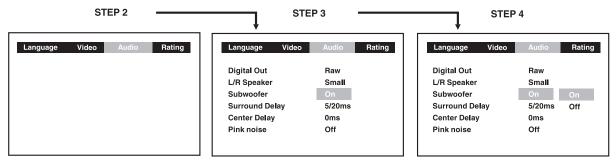
Note:

• You can adjust the channel balance on your Unit. Please see "ADJUSTING THE SOUND" on page 19.

Customizing the Function Settings

Subwoofer

- 1. Press the **SETUP** button.
- 2. Use the cursor ◀ or ▶ button to select the Audio, press the ENTER button.
- 3. Use the cursor ▲ or ▼ button to Subwoofer, and then press the **ENTER** button.
- 4. Use the cursor ▲ or ▼ button to select the desired setting, and then press the **ENTER** button.
- 5. To exit the FUNCTION SETUP MENU and return to the normal screen, press the RETURN button.



Subwoofer

"On" should be selected if your subwoofer is connected.

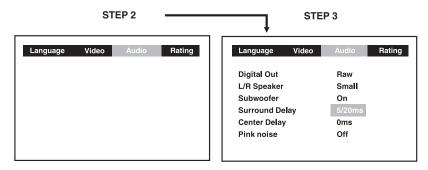
If "Off" is selected, no sound will be emitted by subwoofer.

Note:

You can adjust the channel balance on your Unit. Please see "ADJUSTING THE SOUND" on page 19.

Surround Delay

- 1. Press the **SETUP** button.
- 2. Use the cursor ◀ or ▶ button to select the Audio, press the ENTER button.
- 3. Use the cursor ▲ or ▼ button to Surround Delay, then repeatedly press the **ENTER** button to select the desired Surround Delay type. 0/15ms, 5/20ms, 10/25ms or 15/30ms appears.
- 4. To exit the FUNCTION SETUP MENU and return to the normal screen, press the **RETURN** button.

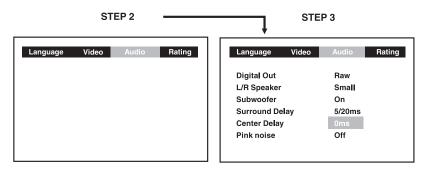


- The first number represents the Dolby Digital and the second number represents the Pro Logic.
- The delay adjustment depends on the location of your surround speakers and the front speakers. If the location
 of the surround speakers is closer than the front speakers, the delay adjustment can compensate the distance
 difference.

Customizing the Function Settings

Center Delay

- 1. Press the **SETUP** button.
- 2. Use the cursor ◀ or ▶ button to select the Audio, press the ENTER button.
- 3. Use the cursor ▲ or ▼ button to Center delay, then repeatedly press the **ENTER** button to select the desired Center Delay type. 0ms, 1ms, 2ms, 3ms, 4ms or 5ms appears.
- 4. To exit the FUNCTION SETUP MENU and return to the normal screen, press the RETURN button.

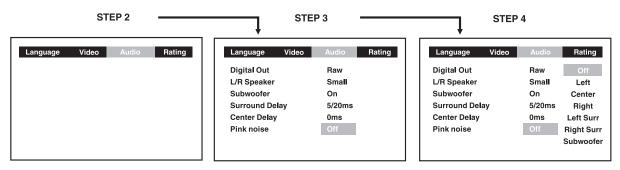


Note:

This delay adjustment depends on the location of your center speaker. If the distance between the center speaker
and the listener is less than the distance between the front right and left speaker and the listener, this delay
adjustment is balanced.

Pink noise

- 1. Press the **SETUP** button.
- 2. Use the cursor ◀ or ▶ button to select the Audio, press the ENTER button.
- 3. Use the cursor ▲ or ▼ button to Pink noise, and then press the **ENTER** button.
- 4. Use the cursor ▲ or ▼ button to select the desired setting, and then press the **ENTER** button.
- 5. To exit the FUNCTION SETUP MENU and return to the normal screen, press the RETURN button.



Pink noise

Off: Pink noise test mode should always be switched off, unless you are testing your speakers.

Left: Pink noise comes out from front left speaker for testing.

Center: Pink noise comes out from center speaker for testing.

Right : Pink noise comes out from front right speaker for testing.

Left sur: Pink noise comes out from rear surround left speaker for testing. **Right sur:** Pink noise comes out from rear surround right speaker for testing.

Subwoofer: Pink noise comes out from subwoofer for testing.

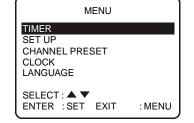
Note:

• When using the pink noise generator to test your speakers, you can press the **SOUND** button on the remote control to adjust the channel balance. Please "Adjusting the Sound" on page 19.

MENU Screen

MENU screen is a home screen used to select various screen functions. A submenu will appear once you select an item for the menu.

- Turn on the TV and select the video channel. (See Setting the 3 ← 4
 Output Channel)
- Press the MAIN POWER button (MAIN POWER indicator will light up) and then press VCR ON/OFF button to select "VCR" (VCR indicator will light up).



Press the MENU button to display the MENU screen.

The following 5 items can be set by using the MENU screen.

TIMER.....Setting a timer recording (and checking it).

SET UP......VCR operating conditions are set according to the broadcast reception and tape

playback conditions.

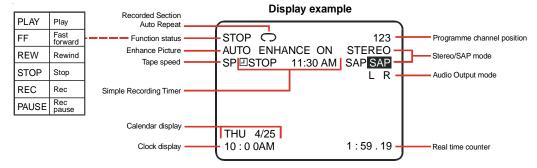
CHANNEL PRESET...... Setting the channels. CLOCK..... Setting the present time

LANGUAGE......Selection of language to be used for the MENU screen.

- 4. Press the cursor ▲ or ▼ button and then the **ENTER** button. The screen changes to the one which you have selected.
- 5. To cancel the MENU screen, press the **MENU** button.

OSD (On Screen Display)

To facilitate the operation and check the current VCR mode information, the following OSD (On Screen Display) will appear on the TV screen when using this VCR.



How to Display Indicators

Each time the **DISPLAY** button is pressed, the screen changes as follows:



AUTO Display

When an operation button, numbered button, **CH+** or **CH-** button is pressed, the current function status or the number of the channel will be displayed in the upper section of the TV screen for about 3 seconds.

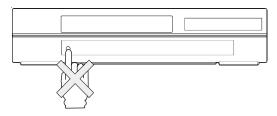


- When the VCR power is turned off, the display mode is retained in memory.
- When you record a video signal output from this VCR on another VCR, press the **DISPLAY** button to select Display Off. (If the function status is displayed on the screen, it is also recorded on the tape.)

Set Up (with Auto Clock Setting)

IMPORTANT (Caution during Set Up):

- Do not press the VCR ON/OFF button on the VCR or remote control.
- Do not insert a video cassette into the VCR.



The Set Up function automatically sets the tuner channels and clock when the antenna cable is connected to the rear of the VCR and the power plug is then connected to an AC outlet.

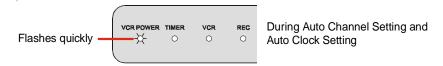
Importants:

When using a cable box:

- See Cable TV Connections.
- Leave POWER on the cable box turned on and select a channel that carries EDS signals.

Procedures

- 1. Make sure that the antenna cable is connected. For connection configuration, refer to Connections.
- 2. Connect the VCR power plug to an AC outlet.
- The tuner channels and clock will automatically be set. The VCR POWER indicator will flash quickly to indicate the setting.
- This VCR can monitor and use time-signals (EDS signals), which are provided by some TV stations, to
 automatically adjust the VCR clock. This VCR automatically searches EDS signals, but if you are in a hurry to use
 timer recording or know the channel of the EDS signal carrier in your area, follow the procedure in Auto Clock
 Setting or Manual Clock Setting.



4. When the setting is completed, VCR POWER indicator will flash slowly.



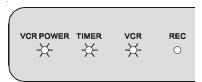
- If power is supplied to the VCR before the cable is connected, Set Up will not be able to preset the channels into memory. If this occurs unplug the VCR from the power source and wait a few minutes. Check the cable/antenna connection and supply power to the VCR. Set Up will automatically begin again.
- If the power is turned on during Set Up, the Auto Channel setting will be interrupted and the tuner channels will
 not be able to be preset.
- Auto Clock Setting may take several minutes.
- If the Auto Clock Setting is not completed within 30 minutes, there may be no channels with EDS signals. In this case, set the clock manually. (See **Manual Clock Setting**.)
- If the antenna signal is weak, the Auto Clock Setting function may not operate.
- During initial channel setting, the channels are set into the AIR channel setting. To watch a cable TV channel, select "CATV" on the CHANNEL PRESET screen. (See **Setting the Channels**.)

Setting the $3 \leftrightarrow 4$ Output Channel

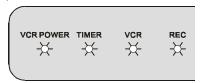
The 3 ↔ 4 Output Channel lets your change the VCR OUTPUT to standard TV broadcasting signals. Both your TV and VCR must be set to the same channel (i.e TV on channel 3 and VCR OUTPUT channel on 3 too).

- 1. Press the MAIN POWER button to turn the power off.
- 2. Press the TV/VCR button and if

VCR POWER, TIMER and VCR indicators light up flashing. The VCR Output Channel is 3.



VCR POWER, TIMER, VCR and REC indicators light up flashing. The VCR Output Channel is 4.



- 3. To change Output Channel from 3 to 4 (or 4 to 3). Press the **TV/VCR** button for 2 seconds until VCR POWER, TIMER, VCR and REC indicators (or VCR POWER, TIMER and VCR indicators) light up flashing. (As above)
- 4. Release the TV/VCR button, the Output Channel is set.

- · VCR Output Channel is automatically set during Set Up.
 - 1. If Channel 3 (or 4) is an active broadcast channel in your area, the Channel 4 (or 3) will be set.
 - 2. If both channel are the active channel or none active channel, the VCR Output Channel will be set to Channel 3.
- Cancelled the Set Up by pressing the VCR ON/OFF button during Set Up before setting the Output Channel.

Mode Selection

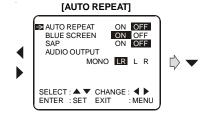
You can use the SET UP selection screen to select the mode for basic features.

Preparation

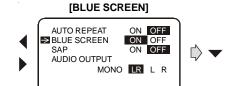
- Turn on the TV and select the video channel. Press the VCR ON/OFF button (VCR ON indicator will light up) and then press the TV/VCR button to select "VCR" (TAPE IN indicator will light up).
- 1. Press the MENU button.
- Select "SET UP" with cursor ▲ or ▼ button and press the ENTER button.

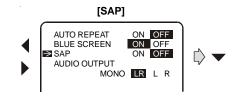


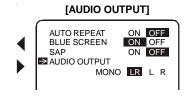
- Set AUTO REPEAT mode to ON or OFF with cursor ◀ or ▶ button.
 Then press the ▼ button.
 - (See Recorded Section Auto Repeat.)
- SAP and AUDIO OUTPUT are displayed.
 See the shaded area below.



- 4. Set BLUE SCREEN mode to ON or OFF with cursor ◀ or ▶ button. Then press the ▼ button.
 - (See Blue Screen Noise Elimination.)
- 5. Set SAP (Separate Audio Programme) mode to ON or OFF with cursor ◀ or ▶ button. Then press the ▼ button. (See Recording MTS [Multi-channel TV sound] Broadcasts.)
- Set AUDIO OUTPUT mode to MONO, LR L or R with cursor ◀ or ▶ button.
 (See Audio Output Mode.)
- 7. Press the **ENTER** button to enter. The screen returns to normal.









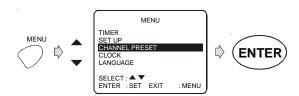
- If you press the MENU button to exit the mode selection screen in Step 7, the data will not be stored. Be sure to
 press the ENTER button to store the data.
- SAP is used for bilingual broadcasting. Check your local broadcast station or cable company.

Channel Preset

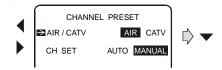
Your VCR can receive a maximum of 181 channels as shown below by presetting the channels into memory. (VHF: 2 to 13, UHF: 14 to 69, CATV: 1 to 125)

Preparation

- Make sure that the cable (antenna or CATV) is connected to the IN terminal on the rear of the VCR.
- Press the MENU button.
 Select "CHANNEL PRESET" with ▲ or ▼ button and then press the ENTER button.



 Select "AIR" or "CATV" with ◀ or ▶ button and then press the ▼ button. EX: AIR



3. Set "CH SET" to "AUTO" with ◀ or ▶ button and then press the ENTER button.



4. The auto tuning will start.

The channel display will count up and when finished, the screen returns to normal.

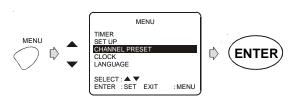


- Automatic tuning will not start unless the arrow is at "CH SET-AUTO" position.
- If a button is not pressed within 3 minutes during the setting procedure, the screen will return to normal.
- If the power is interrupted for more than 5 seconds, AIR/CATV selection must be set again.
- Automatic tuning will be interrupted if the VCR ON/OFF or MENU button is pressed before the screen returns to normal.

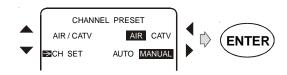
Adding Channel Memory/Erasing Channel Memory

Use this function to manually add or erase channels to/from the memory.

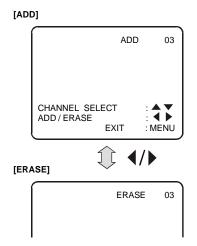
- Select the channel to be added with the numbered buttons and the channel to be erased with the CH+, CH- or numbered buttons.
- 2. Press the **MENU** button. Select "CHANNEL PRESET" with cursor ▲ or ▼ button and press the **ENTER** button.



3. Select "CH SET" with cursor ▲ or ▼ button and then select "MANUAL" with cursor ◀ or ▶button. Then press the ENTER button.



4. Select "ADD" if you want to add the channel memory or "ERASE" if you want to erase the channel memory with cursor ◀ or ▶ button.



5. Press the **MENU** button to return to the normal screen.



- If the power is interrupted for more than 5 seconds, the channel memory may be erased. If this happens, reset the channels again and reset AIR/CATV selection.
- If a button is not pressed within 3 minutes during the setting procedure, the screen will return to normal.

Clock

Auto Clock Setting (If you DO know a channel that carries EDS signals)

Preparation

- Make sure that the antenna cable is connected and connect the power cord.
- Turn on your TV and select the video channel. (See Setting the 3

 ← 4 Output Channel.)
- Press the VCR ON/OFF button (VCR ON indicator will light up) and then press the TV/VCR button to select "VCR'.
 (TAPE IN indicator will light up.)

Importants:

When using a cable box:

- See Cable TV connections.
- Leave POWER on the cable box turned on and select a channel that carries EDS signals.
- 1. Press the **MEUN** button.

Select "CLOCK" with the cursor ▲ or ▼ button and then press the **ENTER** button.

- 2. Select "AUTO" with the cursor ▲ or ▼ button and then press the ENTER button.
- 3. Set EDS CH SET mode to "MANUAL" with the cursor ◀ or ▶ button and then press the cursor ▼ button.



- Select a channel that carries EDS signals with the cursor ◀ or ▶ button. EX: 07
 - The number of channels that can be selected depends on the mode setting on the CHANNEL PRESET screen. See **Notes**.

When using a cable box: Input the output channel (02, 03 or 04) of the cable box.

5. Press the **ENTER** button to enter. The screen returns to normal.

Press the VCR ON/OFF button to turn off the VCR (TAPE IN indicator will turn off and VCR ON indicator will turn off).

The Auto Clock Setting function will automatically set the clock.

Notes:



- If the EDS CH SET mode is set MANUAL mode in **Step 3** and a channel that does not carry EDS signal is selected in **Step 4**, the Auto Clock Setting function will not operate.
- In Step 4, the number of channels that can be selected depends on the mode setting on the CHANNEL PRESET screen. See the table below.
- In Step 1, if you press the MENU button when operating the screen setting for the first time or after a power failure

| AIR/CATV | Channels to be selected | | | | |
|----------|--------------------------------|--|--|--|--|
| AIR | 02 -> 03 -> 0468 -> 69 -> 02 | | | | |
| CATV | 01 		 02 		 03124 		 125 		 01 | | | | |

of more than 5 seconds, the LANGUAGE screen will appear.

- If you entered incorrect data during the setting procedure, re-enter the correct data in the following manner:
 - 1. Use the cursor ◀ or ▶ button to select the data to be corrected.
 - Set the correct data with the cursor ▲ or ▼ button.
 - 3. After correcting the data in **Step 2**, press the **ENTER** button to enter.
- If you press the **MENU** button in **Step 5**, the data will not be stored.
- If a button is not pressed within 3 minutes during the setting procedure, the screen will return to the normal screen.

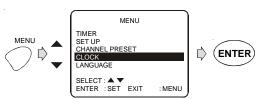
Manual Clock Setting

Preparation

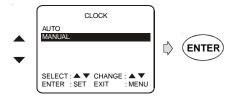
- Press the VCR ON/OFF button (VCR ON indicator will light up) and then press the TV/VCR button to select "VCR".

(TAPE IN indicator will light up.)

1. Press the **MENU** button. Select "CLOCK" with the cursor **▲** or **▼** button and then press the **ENTER** button.



2. Select "MANUAL" with the cursor ▲ or ▼ button and then press the ENTER button.



3. Select "TIME" with the cursor ◀ or ▶ button and set time by holding the cursor ▲ or ▼ button.

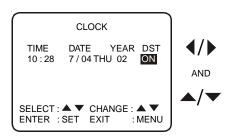
EX.: 10:28 AM

Numbered buttons can be used instead of cursor ▲ or ▼ button to set time and date. Press the AM/PM (+10) to select AM or PM during time setting.

4. Select and set "DATE", "YEAR" and " DST" in turn, in the same manner as in Step 3.

(See Automatic Daylight Saving-Time (D.S.T.) Adjustment)

EX.: Jul.4, 2002, DST: ON



If the data I correct, press the ENTER button to enter. The screen returns to normal.



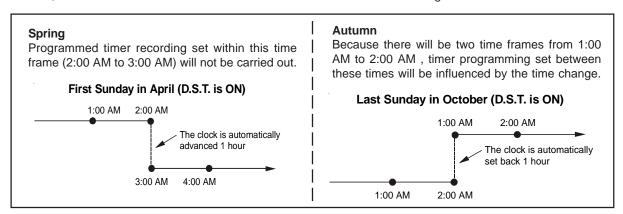
- In **Step 1**, if you press the **MENU** button when operating the screen setting for the first time or after the power is interrupted for more than 5 seconds, the LANGUAGE screen will appear.
- If you entered incorrect data during the setting procedure, re-enter the correct data in the following manner:
 - 1. Use the cursor ◀ or ▶ button to select the data to be corrected.
 - 2. Set the correct data with the cursor ▲ or ▼button.
 - 3. After correcting the data in **Step 2**, press the **ENTER** button to enter.
- If you press the MENU button to exit the CLOCK screen in Step 5, the data will not be stored.
- If a button is not pressed within 3 minutes during the setting procedure, the screen will return to the normal screen.

Automatic Daylight Saving-Time (D.S.T.) Adjustment

This VCR is equipped with an internal Automatic Daylight Saving-Time Adjustment function. In spring (first Sunday in April) and autumn (last Sunday in October), the time is adjusted as shown below. This function has been preset to ON at the factory. Set the D.S.T. mode in the clock setting screen.

Note:

• If the timer recording programme is affected by the D.S.T. time change, check your TV listing and find out when it reflects the time change. Some TV listings will indicate the time change in the same manner as is programmed in this VCR.but others do not show the time change until the next morning. In that case, when programming a timer, use the CLOCK screen to set the D.S.T. mode to OFF so the time change will not be carried out.



Language

When you use the VCR for the first time or the power is interrupted for more than 5 seconds (power failure, etc.), you should set the language to be used for the MENU screen.

Preparation

- Turn on your TV and select the video channel.
- (See Setting the $3 \leftrightarrow 4$ Output Channel.)
- Press the VCR ON/OFF button(VCR ON indicator will light up) and then TV/VCR to select "VCR". (TAPE IN indicator will light up.)
- 1. Press the **MENU** button.
 - LANGUAGE screen will appear.
- 2. Select the language with the cursor ▲ or ▼ button.
 - EX.: ENGLISH
- 3. Press the **ENTER** button to enter. To return to the normal screen, press the **MENU** button.



Note:

If you press the MENU button to exit the LANGUAGE screen in Step 3. The data will not be stored.

VCR Playback

Inserting a Video Cassette

Gently insert the video cassette into the cassette compartment. The VCR turns on automatically and VCR ON indicator light up. If the cassette is inserted incorrectly, the loading system will not function. Do not force the cassette into the VCR.

To remove the cassette, press the TAPE EJECT button during stop mode.

Playback

Preparation

Turn on the TV and select the video channel. (See Setting the $3 \leftrightarrow 4$ Output Channel.)

- 1. When the unit is powered ON and set to VCR mode by pressing the **FUNCTION** button.
- 2. Press the VCR ON/OFF button to turn on the VCR. The VCR ON indicator lights up.
- 3. Insert a cassette.
- 4. Press the PLAY ► button. (The automatic tracking control system engages and "PLAY" flashes on the TV screen for a few seconds. See Automatic Tracking control System.) TAPE IN indicator will light up.
- 5. To stop playback, press the STOP button on the unit or the VCR STOP button on the remote. (If the tape reaches its end, the VCR will automatically rewinds the tape to the beginning, turn its power off and ejects the tape.)

Notes:

- If noise should remain on the TV screen after tracking adjustment has been completed by the Automatic Tracking Control System, use the manual tracking mode.
- Press the CH +/- buttons during playback mode to change to manual tracking mode. Adjust the tracking using the CH +/- buttons until the noise is minimized or eliminated.
- For tapes recorded in EP on another VCR that still have vertical jitter even after manual adjustment, hold down
 the PLAY ➤ button for about 2 seconds. (On screen display may be blurred.) Ejecting the tape or turning off the
 power will return playback to its normal mode.

Fast Forward and Rewind

- 1. When the VCR is in stop mode, press the ▶► TUNING or TUNING ◄◄ button to fast forward or rewind the cassette. (The picture cannot be viewed in this mode.)
- 2. Press the STOP button on the unit or the VCR STOP button on the remote to halt fast forward or rewind.

Notes:

- After rewinding the T-120 cassette tape for about 2 minutes, you can fast forward the cassette tape.

Video Search

Use the following procedure to quickly find the section you want, while viewing the picture.

- During playback, press the TUNING ▶ button for forward video search or the TUNING ◀ button for reverse video search.
 - There are 2 search speeds in each direction. The VCR switches between them each time the button is pressed.
- 2. Press the **PLAY** button to resume normal playback.

VCR Playback

Slow Motion Playback

- 1. Press the **SLOW** ▶ button during playback.
- Press the SLOW I► button to vary the slow motion playback speed between 1/5 and 1/30 of the normal playback speed.

If noise bars appear on the screen, use the CH +/- buttons.

If the picture experiences vertical jitter during the slow mode, set your VCR to the STILL mode and press the **CH** +/- buttons to stabilize the picture. Then press the **SLOW** | • button again.

3. Press the **PLAY** button to resume normal playback.

Still Picture and Frame Advance

- 1. Press the PAUSE II button during playback. This will freeze the picture on your TV.
- 2. If the picture vibrates vertically during still mode, use the **CH +/-** buttons to adjust for minimum distortion. If noise bars appear on the screen during still mode, set your VCR to the slow mode and press the **CH +/-** buttons to make the noise disappear. Then press the **PAUSE II** button again.
- 3. Press the **PAUSE II** button during still mode for frame advance.
- Press the PLAY button again to resume normal playback.

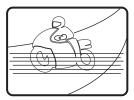
Note:

Sound is muted during still picture, video search, frame advance and variable slow motion.

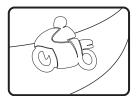
Automatic Tracking Control System

This function automatically adjusts the tracking to match the recorded tape. Auto tracking engages in the following cases:

- · When you insert the cassette and begin playback.
- When you press the CH +/- buttons at the same time.
- When the VCR has been playing back an unrecorded section of tape, and then reaches a recorded tape segment. When auto tracking engages, "PLAY" on the TV screen flashes for a few seconds.



Poor Tracking



Normal Picture

Manual Tracking Control

When a poorly recorded tape is playback or the VCR is near an electrical or magnetic field, auto tracking may not operate normally. In this event, manually adjust the tracking with the **CH** +/- buttons to make any noise disappear.

Blue Screen Noise Elimination

Set the BLUE SCREEN mode to ON on the **SETUP** button selection screen. (See **Mode Selection**.) This function eliminates monitor noise and mutes sound during playback of unrecorded portions of a tape and when receiving a non-broadcasting channel. Blue Screen will also appear if the VCR is set to the Auxiliary mode but no video signal is fed to the VCR. (The BLUE SCREEN mode is set to ON at the factory.)

- Blue Screen does not function during still picture, variable slow motion and video search.
- Blue Screen may not function properly if the broadcast signal is too strong or too weak.
- Blue Screen does not function during playback of a tape with noise recorded.
- If the antenna signal is weak while recording a TV programme or if the input signal is weak while tape dubbing, the monitor screen may turn blue since the unit may not recognize whether or not a proper signal is being received. In this event, set the BLUE SCREEN mode to OFF.

VCR Playback

Quick Start with Full Loading Mechanism

Your VCR has a standby function (Full Loading Mechanism) to allow immediate recording and playback.

After pressing the REC or PLAY button, it takes about 2 seconds until recording or playback is engaged when in the standby mode.

Full Automatic Playback

The Full Automatic Playback lets you enjoy playback with ease. When you insert a cassette with the erasure protection tab removed, your VCR automatically turns on the power and playback the tape. When the tape reaches its end, the VCR automatically rewinds the tape, turns its power off and ejects the tape.

Note:

If the erasure protection hole is covered, press the PLAY button after the power turns on automatically.

Audio Output Mode

Your VCR has 3 channels for audio recording (2 on the Hi-Fi track and 1 on the linear track). You can select the audio output channels in playback mode on the SET UP selection screen. The following shows which audio channels will be heard when a stereo Hi-Fi video cassette is playback while a stereo system is properly connected to the VCR. (See **Mode Selection**.)

Hi-Fi L + R mode: LR

Normally, select Hi-Fi L + R mode on the SET UP selection screen: both the left (L) and right (R) audio channels will be taken from the Hi-Fi audio track.

Normally you will not have to change to another mode.

(See Recording MTS (Multi-channel TV Sound) Broadcasts.)

Hi-Fi L mode: L

The left channel of the Hi-Fi audio track will be playback through both speakers.

Hi-Fi R mode: R

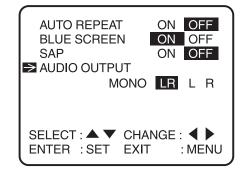
The right channel of the Hi-Fi audio track will be playback through both speakers.

Linear mode: MONO

The audio signal recorded on the linear audio track will be playback through both speakers.

Note:

 When video cassettes recorded on a non-Hi-Fi VCR are playback or the Hi-Fi audio output level is poor, the audio signal recorded on the linear audio track will automatically be playback regardless of the audio output mode.



IMPORTANT

This Unit does NOT allow copying from DVD to VCR tape

Recording a TV Programme

Preparation

- Press the VCR ON/OFF button (VCR ON indicator will light up) and then TV/VCR to select "VCR" (TAPE IN indicator will light up).
- If necessary, set "SAP" on the SETUP selection screen. (See **Mode Selection**.)

Without a Cable Box or Digital Satellite Receiver

- 1. Insert the cassette, with the erasure protection tab covered. (See Cassette Erase Protection below)
- 2. Press the SP•EP button on the remote control to set the recording speed (SP or EP). (See Recording Speeds.)
- 3. Select the desired channel with the CH +/- buttons or the numbered buttons on the remote control.
- 4. Press the **REC** button. The REC indicator lights up (If the erasure protection tab has been removed, the cassette will be ejected.)
- 5. To stop recording, press the **STOP** button. The REC indicator will turn off.
- To pause recording during the REC mode, press the PAUSE II button on the remote control (The REC indicator will flash). To resume recording, press the PAUSE II or REC button and at the same time REC indicator will turn on. (Pause disengages automatically after about 5 minutes to avoid damage to the tape and the VCR and stop mode is engaged.)

With a Cable Box or Digital Satellite Receiver

- 1. Insert the cassette, with the erasure protection tab covered. (See Cassette Erase Protection below.)
- 2. Press the SP•EP button on the remote control to set the recording speed (SP or EP). (See Recording Speeds.)
- 3. Set the TV and VCR channels to output CH of cable box or digital satellite receiver.
- 4. Set the cable box or digital satellite receiver to the desired channel to record.
- 5. Press the **REC** button. The REC indicator lights up (If the erasure protection tab has been removed, the cassette will be ejected).
- 6. To stop recording, press the VCR STOP button. The REC indicator will turn off.

Notes:

- You will be unable to watch a scrambled channel while recording.
- It is not necessary to set the clock to use this recording operation.
- "PAUSE" will flash on the TV screen if the PAUSE II button is pressed in stop mode. Press the VCR STOP button to disengage the pause mode or press the REC button to enter the record standby mode at the same time REC indicator will flash, then press the REC or PAUSE II button again to enter record. (The REC indicator will light up.)
- The VCR can record a TV programme even with the TV turned off.

To Watch Another TV Programme While Recording

While recording, press the **TV/VCR** button to select "TV" (the TAPE IN indicator will turn off to indicate TV mode), then select the programme you wish to view using the TV tuner.

At the end of the tape, your VCR will automatically stop recording, rewinds the tape, turns its power off and ejects the tape.

Cassette Erase Protection

A WHS cassette has a removable tab to prevent accidental erasure of recorded material. Removing the tab prevents recording. To record on a video cassette with the tab removed, place adhesive tape over the tab opening.



To Record TV or AV-in While DVD Playback

If user wants to record TV or AV-in signal and enjoy DVD at the same time, user must set to the required TV or AV-in and activate the record the function. After recording starts, it is ok to switch to DVD mode to enjoy the DVD.

Recording Speeds

This VCR lets you select a recording speed (SP or EP), SP provides a better picture, although the recording time is shorter. Select the tape speed that best suits your needs.

| MODE CASSETTE | SP (Standard Play) | EP (Extended Play) | |
|------------------|-----------------------|-----------------------|--|
| T-60 | 1 hr. | 3 hrs. | |
| T-120 | 2 hrs. | 6 hrs. | |
| T-160 | 2 hrs. & 40 min. | 8 hrs. | |

Note:

This VCR can playback tapes recorded in LP (Long Play) mode.

Recording Hi-Fi Stereo Sound

Your VCR records AUDIO signals on two types of audio tracks.

Hi-Fi:

Using specialized rotary heads, audio signals are recorded on the video track in FM format.

Multi-sound broadcasts (Stereo or SAP [Separate Audio Programme]) are recorded on two channels.

I inear:

All audio signals are recorded in mono on the linear audio track.

Notes:

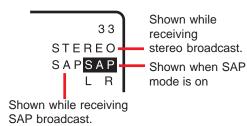
- Video cassettes recorded on a non Hi-Fi VCR can also be playback. However. If the audio signals are recorded
 on two linear channels, stereo programmes will be playback in monaural and SAP (Separate Audio Programme)
 will be playback with both the MAIN and SAP audio mixed together.
- Video cassettes recorded on this VCR can be playback on a non-Hi-Fi VCR. However, only the linear track will be playback.

Recording MTS (Multi-channel TV Sound) Broadcasts

Your VCR can record stereo or SAP (Separate Audio Programme) broadcasts, where available.

If the broadcast is in stereo, the VCR automatically records the stereo sound in dynamic Hi-Fi. If the broadcast is in SAP, you can record both the MAIN and the SAP sound by using the **ENTER** button selection screen to set the SAP mode to ON. If the broadcast is in stereo/SAP, you can record either the SAP sound by using the **ENTER** button selection screen to set the SAP mode to ON, or stereo sound by setting the SAP mode to OFF. (See **Mode Selection**.)

On the TV screen



MTS/SAP Recording

The monitor output listed in the table shows that the audio output mode is in the Hi-Fi L + R mode.

| Broadcast Received | SAP Mode | *Monitor Output | | Recording | | | |
|-----------------------|-------------|-----------------|------------|-------------|-------------|--------------|--|
| Received | Position | L. Speaker | R. Speaker | Hi-Fi L. CH | Hi-Fi R. CH | Linear Track | |
| Stereo | OFF | L | R | L | R | L+R | |
| Stereo | ON | L | R | L | R | L+R | |
| SAP | OFF | MAIN | MAIN | MAIN | MAIN | MAIN | |
| SAP | ON | MAIN | SAP | MAIN | SAP | SAP | |
| Stereo/ SAP | OFF | L | R | L | R | L+R | |
| | ON | L+R | SAP | L+R | SAP | SAP | |

Monitor Output When Receiving a SAP Broadcast

When receiving a SAP broadcast, if the SAP position is set to ON, change the audio output mode to select Monitor Output (MAIN or SAP) with the **ENTER** button selection screen. (See **Mode Selection**.)

When enjoying a TV programme with MAIN sound

Select L on the **ENTER** button selection screen. (See **Audio Output Mode.**)

When enjoying a TV programme with SAP sound

Select R or MONO on the **ENTER** button selection screen.

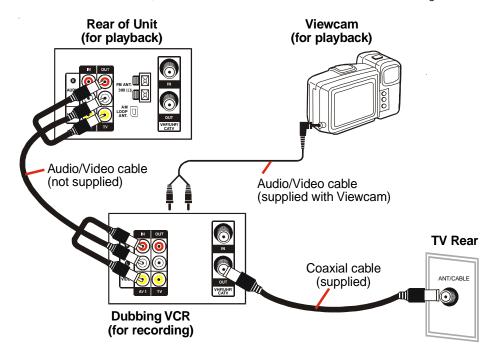
(See Audio Output Mode.)

Tape Dubbing Connection Instructions

Your VCR can dub (copy) video material from another video device. It can also output video and audio signals for recording on other video or audio equipment. Audio/Video dubbing cannot be done separately.

- 1. Switch your VCR to the auxiliary input by pressing the **INPUT** button on the remote control. (You can also use the **CHANNEL** ▲/▼ buttons on the unit or the **CH +/-** buttons on the remote control.)
- 2. Begin recording on the dubbing VCR and playback on the source VCR simultaneously.

- When using special playback functions (still picture, video search, frame advance and variable slow motion) during dubbing, a blue screen may appear.
 - Set BLUE SCREEN mode on the dubbing VCR (for recording) to OFF. (See **Mode Selection**.) To use the TV as a monitor while dubbing, press the **TV/VCR** button to "VCR" on the dubbing VCR.
- Use an RCA pin-type connection cable (not supplied with VCR, but supplied with VIEWCAM) to connect source VCR to dubbing VCR.
- Refer to the manual of the VCR connected to this unit when dubbing a tape.
- If source VCR is a monaural mode, connect the audio cable to "AUDIO-L" of the dubbing VCR.



Simple Recording Timer

The Simple Recording Timer (SRT) enables you to set the recording stop time. The SRT can be set on the TV screen by using the remote control.

The SRT cannot be set if the clock has not been set. Make sure the clock is set before setting the SRT.

Preparation

- Turn on the TV and select the video channel. (See Setting the 3 ↔ 4 Output Channel.)
- Insert a cassette with the erasure protection tab opening covered. Power will turn on automatically (VCR ON indicator will light up).
- Press the **TV/VCR** button to select "VCR" (TAPE IN indicator will light up).
- If necessary, set "SAP" on the ENTER button selection. (See Mode Selection.)

Procedures

Example:

Recording a TV programme in the SP mode. The programme is on Channel 2, ending at 9:50 AM. The present time is 8:43 AM.

- 1. Select the desired channel with the numbered buttons or CH +/-buttons. $EX.: Channel \rightarrow 02$
- 02
- Set the recording speed (SP or EP) with the SP•EP button on the remote control.
 EX.: SP
- SP

02

- Press the REC button to enter the recording mode (REC indicator will light up).

 Then press the REC button again to enter the simple recording timer.

 Then press the REC button again to enter the simple recording timer.
 - Then, press the **REC** button again to enter the simple recording timer mode (TIMER indicator will light up). The recording stop time is displayed. *EX.:* 8:50 AM
 - 02 SP □ STOP -9:50 AM-

4. Each press of **REC** button increases the stop time by 10 minutes.

Note:

- The recording stop time will flash for a few seconds before the stop time is fixed.
- 5. When the stop time comes, recording is finished and the power turns off.

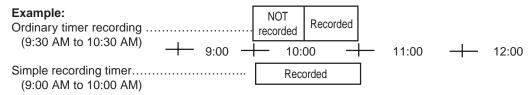
Changing the Contents of the Simple Recording Timer

- 1. Press the **REC** button. The stop time flashes on the TV screen.
- 2. Change the stop time as desired using the **REC** button.

Cancelling the Simple Recording Timer

1. Press the VCR STOP ■ button.

- The Simple Recording Timer has priority over other recordings.
- Ordinary timer programmes will not be recorded when portions of the time setting of the simple recording timer
 and of the time setting of the ordinary timer recording overlap.



Recording with the Timer

Preparation

- · Turn on the TV and select the video channel.
- Insert a cassette with the erasure protection tab opening covered. Power will turn on automatically (POWER ON indicator will light up).
- Press the TV/VCR button to select "VCR" (TAPE IN indicator will light up).
- · Check that the clock is displaying the correct time.
- If necessary, set "SAP" on the ENTER button selection screen. (See Mode Selection.)

Procedures

Example:

Recording a TV programme in the SP mode: the TV programme is on channel 7 starting at 9:05 PM and stopping at 10:35 PM on August 10th. The present time is 6:35 PM on February 18th.

- Press the MEMORY button. The Timer screen will appear and then press the ENTER button.
- Select the desired month/day (DATE) with the cursor ▲ or ▼ button and then the press the ▶ button. The cursor will move to the next column. EX: February 18th
- If you want to record every day or week at the same time, hold the cursor
 button when you select the date.

When pressing: The recording date changes in this sequence:

- ▼ 8/10 → MO-FR → MO-SA → DAILY → SAT...SUN → 8/9 → 8/8... (next year)
- ▲ 8/10 → 8/11 → 8/12......8/8 → 8/9 → SUN.....SAT..... (present)(tomorrow) (next year)
- Select the desired channel with the cursor ▲ or ▼ button and then press the ▶ button.

EX: Channel 07

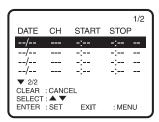
4. Set the recording start time (hour digits and minute digits) with the cursor ▲ or ▼ button and then press the cursor ▶ button. *EX.*: 9:05 *PM*

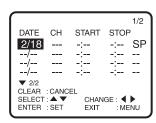
Press the AM/PM button to select AM or PM.

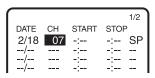
5. Set the recording stop time with the cursor ▲ or ▼ button and then press the cursor ▶ button.

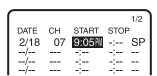
EX.: 10:35 PM

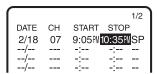
6. Select the tape speed with the cursor ▲ or ▼ button. *EX.: SP*

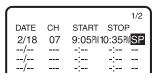












- 7. Press the **ENTER** button.
 - To programme the additional timer settings, press the ENTER button and repeat steps 2-7.



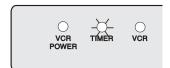
Press the MENU button to finish settings.
 The display shown to the left appears on the screen for 5 seconds, after which the normal screen returns.



Press the VCR ON/OFF button to enter the timer standby mode. Be sure that the TIMER indicator lights up.

If users re-power the Unit and watching DVD:

- If connection from DVD to TV is thought video-signal (yellow cable), they should press the VCR ON/OFF button again to turn off VCR. Be sure that the TIMER indicator lights up; otherwise, the timer recording is not possible.
- If connection from DVD to TV is through coaxial cable, they cannot turn off VCR, so the timer recording is not possible.



- If the power is interrupted for more than 5 seconds (power failure, etc.) during timer recording, the Auto Clock Setting will reset the time after the power is returned (the VCR ON indicator will flash) but the timer settings will be cancelled.
- Numbered buttons can be used instead of the cursor ▲ or ▼ button to set the data.
- If the cassette ends before recording all the programmes, the VCR will stop, turns its power off and ejects the tape automatically.
- In **Step 9**, if the **VCR ON/OFF** button is pressed with no cassette inserted, the TIMER indicator flashes for 5 seconds indication that timer recording is not possible.
- In Step 9, if the inserted cassette is without the erasure protection tab, TIMER indicator flashes and the cassette
 is ejected.
- To stop timer recording, press the VCR STOP button.
- If a button is not pressed within 3 minutes during the setting procedure, the screen will return to the normal screen
- There are two timer setting screens (1/2, 2/2).

Confirming Timer Programmes

You can see on the Timer setting screen a list of all timer programmes that are already set.

Preparation

- Turn on the TV and select the video channel.
- Press the VCR ON/OFF button (VCR ON indicator will light up) and then press the TV/VCR button to select "VCR" (TAPE IN indicator will light up).
- 1. Press the **MEMORY** button. TIMER screen will appear.
 - Check the information displayed.
- DATE STOP CH START 2/25 10:05PM 10:35 PM EP 25 2/18 9:05PM 10:35PM SP DAILY 10:05PM 10:30PM EP 88 --/--**V** 2/2 CLEAR : CANCEL SELECT: A 7 ENTER : SET **EXIT** : MENU

1/2

3. Pressing the MENU button will clear the screen.

The display shown to the left appears for 5 seconds, after which the normal screen returns.

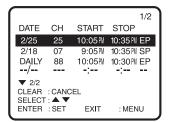
 After checking or correcting the programme contents, press the VCR ON/ OFF button to enter, the Timer Standby mode. (At the same time, TIMER indicator will light up.) TURN VCR POWER OFF FOR TIMER RECORDING.

Cancelling Timer Programmes

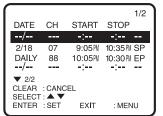
Perform the following procedure to cancel timer programmes that have already been set.

Preparation

- Turn on the TV and select the video channel.
- Press the VCR ON/OFF button (VCR ON indicator will light up) and then press the TV/VCR button to select "VCR" (TAPE IN indicator will light up).
- 1. Press the **MEMORY** button. TIMER screen will appear.
 - Select the programme you wish to cancel with the cursor ▲ or ▼ button.



Double-check that it is the programme you wish to cancel and press the CLEAR button. It will be cleared on the screen.



- 3. Pressing the **MENU** button will clear the screen.
 - The display shown to the left appears for 5 seconds, after which the normal screen returns.
 - If there are still some programmes set, press the VCR ON/OFF button to enter the Timer Standby mode. (At the same time, TIMER indicator will light up.)
 - If you press the MENU button when all of the timer programmes are cancelled, the screen will return to normal.

TURN VCR POWER OFF FOR TIMER RECORDING.

(continued on next page)

Special Functions

Auto Enhance

- 1. Press the **DISPLAY** button twice. "AUTO ENHANCE ON (or OFF)" will appear on the TV screen for a few second.
- 2. Press the **SET** button on the unit. Each time the button is pressed, the mode switches between ON and OFF. (The AUTO ENHANCE is preset to ON at the factory.)

ON:

Normally leave the mode set to ON. This high picture quality function will create a clearer image during playback. **OFF:**

Set to OFF when playing back a tape on the VCR while editing or when strong noise appears on the screen.

Recorded Section Auto Repeat

Set the AUTO REPEAT mode to ON on the SET UP selection screen. (See **Mode Selection.**) If the recorded portion has finished and a non-recorded portion has continued for 15 seconds, the tape will automatically stop, rewind to the beginning and repeat playback. (The AUTO REPEAT mode is preset to OFF at the factory).

Notes:

- The ON/OFF status of the Recorded Section Auto Repeat can be checked when the DISPLAY button is pressed to display OSD.
 - (The " \to " mark lights when the Recorded Section Auto Repeat is on.)
- If the Recorded Section Auto Repeat is on and the tape is rewinded to the beginning with rewind or reverse video search, the tape will automatically start playback.

Skip Search

With this feature, you can set a forward video search time to approx. 30, 50, 90 or 120 seconds of recorded material. After searching, normal playback will resume automatically.

Press the NEXT button on the remote control during playback (ex. during commercials).

| Number of Times Pressed 1 Time | | 2 Times | 3 Times | 4 Times |
|--------------------------------|-----------------|-----------------|-----------------|------------------|
| Video Search Time | Approx. 30 sec. | Approx. 60 sec. | Approx. 90 sec. | Approx. 120 sec. |

Instant Replay

With this feature, you can set a reverse video search time to approx. 20, 40, 60 or 80 seconds of recorded material. After searching, normal playback will resume automatically.

Press the PREV I◀ button on the remote control during playback (ex. during commercials).

| Number of Times Pressed 1 Time | | 2 Times | 3 Times | 4 Times |
|--------------------------------|-----------------|-----------------|-----------------|-----------------|
| Video Search Time | Approx. 20 sec. | Approx. 40 sec. | Approx. 60 sec. | Approx. 80 sec. |

Radio Operation

Tuning into a station manually

- Press the **FUNCTION** button until the frequency band appears on the display.
- Press the BAND button on the remote remote or STOP button on the front panel to select the desired band.
- 3. Press the **◄ TUNING ▶** button to tune in the desired station.

FM 10320MHZ

FM Stereo

Press the FM MODE button on the remote until " 5 T E R E 0 " appears on the display.

STEREO

Weak FM stations

 Press the FM MODE button on the remote until the "M I N I " word appears on the display. Background noise will be reduced but the signal reproduced will be mono. To restore stereo reception, press the FM MODE button on the remote to select STEREO.



Note:

• The left / right front speakers and subwoofer are activated only.

To search for a station automatically

- Hold down the ◀ TUNING ▶ buttons on the remote or ◀ REW and F.FWD ▶ buttons on the front panel for 1 to 2 seconds, and a station is searched for automatically. After tuning in a station, the search stops.
- The search may not stop at a station with a very weak signal.

Presetting stations

You can tune into a stored station directly by entering the preset number.

- 20 stations on FM band can be preset.
- 20 stations on AM band can be preset.
- Press the FUNCTION button until the frequency band appears on the display.
- 2. Press the BAND button on the remote to select the desired band.
- 3. Use the **◄ TUNING ▶** button to find your desired station.
- 4. Press the **MEMORY** button on the remote.
- 5. Press the ►►I NEXT or PREV I◄◄ button to select the preset number and press the MEMORY button on the remote to store the station.
- 6. Repeat steps 2-5 to store other stations.

Tuning into a preset station

- 1. Press the FUNCTION button on the front panel until the frequency band appears on the display.
- 2. Press the BAND button on the remote to select the desired band.
- Press the ▶ PLAY button and ▶►I NEXT or PREV I◄ button to select the presetted station or use the numbered buttons to enter the number to select the presetted station.

Example: To select preset number 15, press the +10 and 5 buttons.

To select preset number 10, press the +10 and 0 buttons.

Language Code List for Disc Language

| Code | Language Name | Code | Language Name | Code | Language Name | Code | Language Name |
|------|---------------|------|------------------|------|----------------|------|---------------|
| AA | Afar | FY | Frisian | MG | Malagasy | SL | Slovenian |
| AB | Abkhazian | GA | Irish | MI | Maori | SM | Samoan |
| AF | Afrikaans | GB | Scots Gaelic | MK | Macedonian | SN | Shona |
| AM | Ameharic | GL | Galician | ML | Malayalam | SO | Somali |
| AR | Arabic | GN | Guarani | MN | Mongolian | SQ | Albanian |
| AS | Assamese | GU | Gujarati | MO | Moldavian | SR | Serbian |
| AY | Aymara | НА | Hausa | MR | Marathi | SS | Siswat |
| AZ | Azerbaijani | HI | Hindi | MS | Malay | ST | Sesotho |
| BA | Bashkir | HR | Croatian | MT | Maltese | SU | Sundanese |
| BE | Byerlorussian | HU | Hungarian | MY | Burmese | SV | Swedish |
| BG | Bulgarian | HY | Armenian | NA | Nauru | SW | Swahili |
| ВН | Bihari | IA | Interlingua | NE | Nepali | TA | Tamil |
| BI | Bislama | ΙE | Interlingue | NL | Dutch | TE | Telugu |
| BN | Bengali | IK | Inupiak | NO | Norwegian | TG | Tajik |
| | Bangla | IN | Indonesian | OC | Occitan | TH | Thai |
| ВО | Tibetan | IS | Icelandic | OM | (Afan) Oromo | TI | Tigrinya |
| BR | Breton | ΙΤ | Italian | OR | Oriya | TK | Turkmen |
| CA | Catalan | IW | Hebrew | PA | Panjabi | TL | Tagalog |
| co | Corsican | JA | Japanese | PL | Polish | TN | Setswana |
| CS | Czech | JI | Yiddish | PS | Pashto, Pushto | TO | Tonga |
| CY | Welsh | JW | Javanese | PT | Portuguese | TR | Turish |
| DA | Danish | KA | Georgian | QU | Quechua | TS | Tsonga |
| DE | German | KK | Kazakh | RM | Rhaeto- | TT | Tatar |
| DZ | Bhutani | KL | Greenlandic | | Romance | TW | Twi |
| EL | Greek | KM | Cambodian | RN | Kirundi | UK | Ukrainian |
| EN | English | KN | Kannada | RO | Romanian | UR | Urdu |
| EO | Esperanto | KO | Korean | RU | Russian | UZ | Uzbek |
| ES | Spanish | KS | Kashmiri | RW | Kinyarwanda | VI | Vietnamese |
| ET | Estonian | KU | Kurdish | SA | Sanskrit | VO | Volapük |
| EU | Basque | KY | Kirghiz | SD | Sindhi | WO | Wolof |
| FA | Persian | LA | Latin | SG | Sangho | XH | Xhosa |
| FI | Finnish | LN | Lingala | SH | Serbo- | YO | Yoruba |
| FJ | Fiji | LO | Laothian | | Croatian | ZH | Chinese |
| FO | Faroese | LT | Lithuanian | SI | Singhalese | ZU | Zulu |
| FR | French | LV | Latvian, Lettish | SK | Slovak | | |

Maintenance

Cleaning Disc

A defective or soiled disc inserted into the Unit can cause sound to drop out during playback.

Handle the disc by holding its inner and outer edges.

- · Do NOT touch the surface of the unlabeled side of the disc.
- Do NOT stick paper or tape on the surface.
- Do NOT expose the disc to direct sunlight or excessive heat.
- Clean the disc before playback. Wipe the disc from the center outward with a cleaning cloth.
- NEVER use solvents such as benzine or alcohol to clean the disc.
- Do NOT use irregular shape discs (example: heart shaped, octagonal, etc.). They may cause malfunctions.

Cleaning the Unit

- · Be sure to turn the Unit off and disconnect the AC power cord before maintaining the Unit.
- · Wipe the Unit with a dry soft cloth.
 - If the surfaces are extremely dirty, wipe clean with a cloth which has been dipped in a weak soap-and-water solution and wrung out thoroughly, then wipe with a dry cloth.
- · Never use alcohol, benzine, thinner, cleaning fluid or other chemicals. Do NOT use compressed air to remove dust.

Important Note

clear.

Before transporting the Unit, remove disc from the CD tray.

Trouble Shooting Guide

SYMPTOM CAUSE (AND REMEDY) OVD No power. • Check that the AC power cord is connected. • The region number of the disc doesn't match the region number of this Unit. • The TV is not set to receive DVD signal output. • The video cable is not connected. • The TV is not turned on.

• The disc is scratched.

If video from your system has to go through your VCR to get to your TV, the copy-protection
applied to some DVD programs could affect picture quality. If you still experience problems
after checking your connections, please try connecting your Unit directly to your TV.

Trouble Shooting Guide

SYMPTOM

CAUSE (AND REMEDY)

- The location and orientation of the antenna are incorrect. If you use an indoor antenna, change to an outdoor antenna.
- The TV antenna wire is too close to the Unit. Separate the antenna wire of the TV set from the Unit.

No sound or only a very low-level sound is heard.

- · Check that the speakers and equipment are connected securely.
- Make sure that you've selected the correct equipment on the system.
- The system is in pause mode or in Slow-motion Play mode. Press the ▶ PLAY button to return to normal play mode.
- Fast forward or fast reverse is performed. Press the PLAY button to return to normal play mode.
- · Check the speaker settings.
- · Make sure that AUDIO output and AV IN input connections are correct.
- · Adjust the speakers volume.
- The DTS DVD disc cannot be decoded to have speaker output.
- This Unit is too hot, shut off the Unit for 30 minutes to cool down.
- You can use Pink Noise setting to test the speaker come out (Please see Customizing the Function Settings)

Severe hum or noise is heard.

- Check that the speakers and equipment are connected securely.
- Check that the connecting cords are away from a transformer or motor, and at least 10 feet (3 meters) away from a TV set or fluorescent light.
- Move your TV away from the audio equipment.
- The plugs and jacks are dirty. Wipe them with a cloth slightly moistened with alcohol.
- Clean the disc.
- Vibrations from the speakers are affecting the Unit.

The remote does not function.

- · Remove any obstacles between the remote and the Unit.
- Use the remote near the Unit.
- Point the remote at the remote sensor on the Unit.
- · Replace all the batteries in the remote with new ones.

The disc does not play.

- There is no disc inside ("No Disc" appears on the TV screen).
- Insert the disc correctly with the playback side facing down on the disc tray.
- · Clean the disc.
- A non-NTSC disc has been inserted. The Unit and disc region number are incompatible.
- Condensation may have formed inside the Unit due to a sudden change in temperature. Wait about an hour for it to clear and try again.

The DVD door cannot open.

 Reset the Unit, press the POWER button to turn off the Unit, wait for a few seconds, then restart the Unit.

Trouble Shooting Guide

SYMPTOM

CAUSE (AND REMEDY)

VCR

No power.

· Make sure the power cord is plugged in.

VCR does not receive CATV channels.

 Use the CHANNEL PRESET screen to change from AIR mode to CATV. (See Setting the Channels.)

VCR does not operate.

- · Turn on the power.
- Press the TAPE EJECT button several times.
- Safety device in VCR is functioning. Unplug VCR and plug it in again after a few minutes.

VCR does not record.

- Cassette erasure protection tab is removed. Use a different cassette or place adhesive tape over the tab opening.
- · Check for a cassette loaded in the unit.

No color or poor TV during normal viewing

- Make sure the TV has been selected by pressing TV/VCR button.
- Make sure all cables are connected properly.

No tape movemnt.

- Make sure the VCR is not in PAUSE mode.
- Make sure the tape has not reached the end or beginning.

No picture appears during playback.

- Make sure the TV is set to the same channel as the VCR's 3 ←→ 4 Output Channel.
- · Check all connecting cables.

Timer recording does not work.

· Power failure may have occurred.

Noise appears on the screen when the automatic tracking control system is operating.

- Adjust the tracking manually by pressing CH +/- buttons.
- In some cases, with a worn or damaged tape, noise cannot be eliminated completely.

Cannot record a signal through the front/rear external input jack.

The VCR may not be set to external input mode.
 Press the INPUT button to set the VCR to external input mode. (See Tape Dubbinhg.)

Picture or sound is not stable during playback.

 Keep your VCR away from electrical and magnetic appliances. Be sure to position your VCR at least 8" away from your TV or video monitor.

Stereo TV puts out monaural sound only, even when cassettes recorded in Hi-Fi stereo are playback.

- Use RCA pin type connection cables (not the supplied coaxial cable) to connect the TV to the VCR, and set the TV to external video input mode.
- Adjust the tracking or try another Hi-Fi stereo. (Any stereo signals recorded on the linear track will not be playback in stereo.)

Cassettes recorded in stero mode are not playback in stereo.

• Make sure the sound was recorded in Hi-Fi stereo. (Any stereo signals recorded on the linear track will not be playback in stereo.)